

NEW YORK UNIVERSITY BULLETIN

VOLUME XLVI

JANUARY 7, 1946

NO. 6



College of Medicine

FORMED BY THE UNION OF THE
UNIVERSITY MEDICAL COLLEGE (1841) AND THE
BELLEVUE HOSPITAL MEDICAL COLLEGE (1861)

ANNOUNCEMENTS FOR THE
ONE HUNDRED AND SIXTH SESSION

July 1945—June 1946

477 FIRST AVENUE · NEW YORK

CITATION: NYU College of Medicine Announcements, [years]. The Lillian and Clarence de la Chapelle Medical Archives, NYU Health Sciences Libraries.

NEW YORK UNIVERSITY BULLETIN

Vol. XLVI, No. 6

January 7, 1946

Published weekly in December, February, April, June, July, and August, and twice a month in January, March, and May, by New York University, Main Building, 100 Washington Square East, New York 3, N. Y. Entered at the Post Office, New York, N. Y., as second-class matter under the Act of August 24, 1912. Acceptance for mailing at special rate of postage provided for in section 1103, Act of October 3, 1917, authorized June 17, 1924.

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SCHOOL OF MEDICINE

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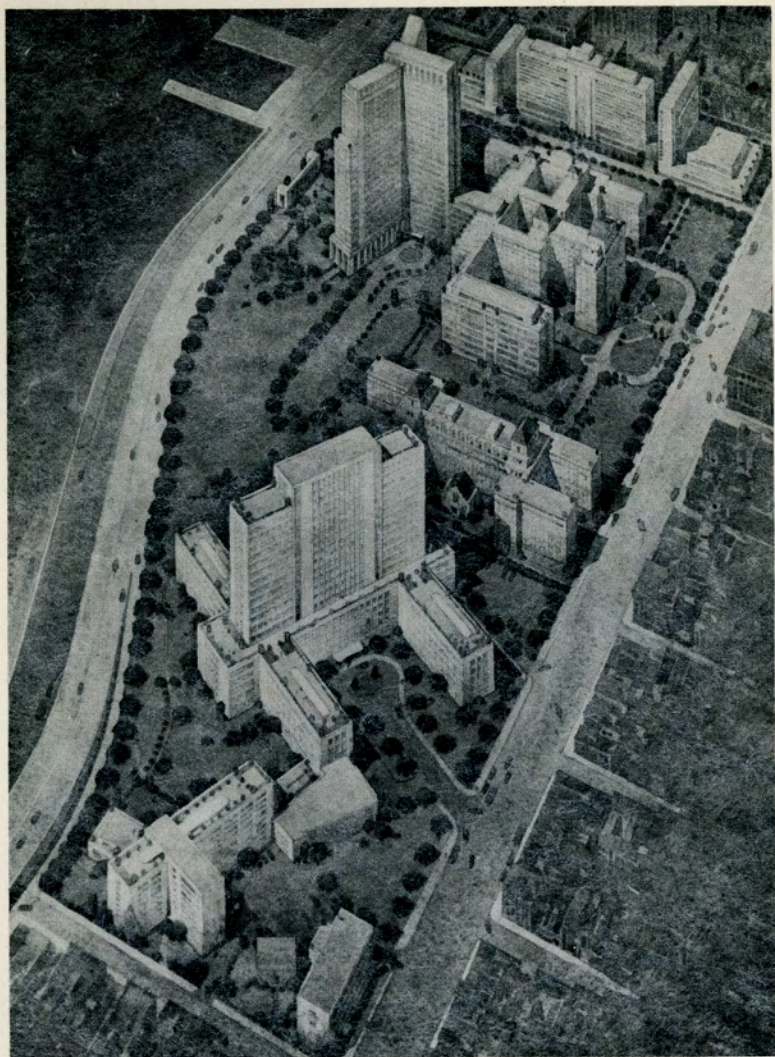
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JUN 1946

INDEX

	PAGE
Admission Requirements	52
Advanced Standing	53
Advancement in Course	54
Application, Method of Making	53
Bellevue Hospital	50
Buildings	46
Calendar	5
Clinical Facilities	49
Council of the University	6
Description of Courses	67
Anatomy	67
Bacteriology	68
Chemistry	69
Dermatology and Syphilology	70
Forensic Medicine	71
Medical History and Medical Ethics	97
Medicine	72
Neurology	77
Obstetrics and Gynecology	79
Ophthalmology	81
Orthopedic Surgery	82
Otorhinolaryngology	83
Pathology	84
Pediatrics	85
Pharmacology	87
Physiology	88
Preventive Medicine	89
Psychiatry	91
Radiology	93
Surgery	94
Urology	96
Discipline	58
Equipment Required	59
Examinations	54
National Board	56
New York State Board	56
Faculty	8
Fees	57

	PAGE
Fellowships	62
Goldwater Memorial Hospital	51
Graduate Medical Education	97
Graduate Work, University Commission on	45
Graduation, Requirements for	56
Historical Sketch	45
Hospitals in Which Elective Courses Are Given	52
Instruction, General Plan of	64
Lectureships	63
Library	48
License, Examination for New York State	56
Loan Funds	60
Matriculation	54
Medical Licensure	56
Medicine, College of	45
National Board Examinations	56
New Medical Center	47
New York University	7
New York University Clinic	49
Nursing, Division of	98
Prizes	61
Registration	54
Scholarships	60
Societies	63
Standing Committees	43
Student Health, Department of	59
Studies, Summary of Required	66
Transcripts	58
Willard Parker Hospital	51



Proposed New York University - Bellevue Medical Center

CALENDAR

All dates are inclusive

JULY 1945 SESSION

First Year

First trimester Monday, October 1—Saturday, December 22, 1945
 Second trimester Wednesday, January 2—Saturday, March 16, 1946
 Third trimester Monday, March 18—Saturday, June 1, 1946
 Examinations Week of June 10, 1946

Second Year

First trimester Monday, July 9—Saturday, September 22, 1945
 Second trimester Monday, October 1—Saturday, December 22, 1945
 Third trimester Wednesday, January 2—Saturday, March 16, 1946
 Examinations Monday, Tuesday, and Wednesday, March 18, 19, and 20, 1946

Third Year

Monday, July 9, 1945—Saturday, March 16, 1946
 Examinations Monday, Tuesday, and Wednesday, March 18, 19, and 20, 1946

Fourth Year

Monday, July 9, 1945—Saturday, March 23, 1946
 Examinations Wednesday, Thursday, and Friday, March 20, 21, and 22, 1946
 Graduation Thursday, March 28, 1946
 exercises

HOLIDAY SCHEDULE

First Year

Thanksgiving Recess—Thursday, November 22—Sunday, November 25, 1945
 Christmas Recess—Sunday, December 23, 1945—Tuesday, January 1, 1946
 Washington's Birthday—Friday, February 22, 1946
 Good Friday and Saturday—Friday, April 19, and Saturday, April 20, 1946
 Decoration Day—Thursday, May 30, 1946

Second and Third Years

Labor Day—Monday, September 3, 1945
 Summer Recess—Monday, September 24—Saturday, September 29, 1945
 Thanksgiving Recess—Thursday, November 22—Sunday, November 25, 1945
 Christmas Recess—Sunday, December 23, 1945—Tuesday, January 1, 1946
 Washington's Birthday—Friday, February 22, 1946

Fourth Year

Labor Day—Monday, September 3, 1945
 Thanksgiving Day—Thursday, November 22, 1945
 Christmas Recess—Sunday, December 23, 1945—Tuesday, January 1, 1946
 Washington's Birthday—Friday, February 22, 1946

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The University, as a private institution, receives neither State nor City aid, and has no connection with any of the tax-supported institutions. Its grounds and buildings are valued in excess of fifteen million dollars. About forty per cent of the total student enrollment is on a full-time basis; the remainder is part time. About one half of the students attend classes in the daytime, and the other half in the evening.

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 JOHN V. TAGGART, M.D., *Medicine*
 JOHN H. TATERKA, M.D., *Neurology and Psychiatry*
 MARGARET H. TEWKSBURY, A.B., M.D., *Clinical Pathology*
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 SAMUEL S. WALD, D.D.S., F.A.C.D., *Dental Radiology*
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 HARRY WEAVER, A.B., M.D., *Radiology*
 ALFRED WEINTRAUB, M.D., *Ophthalmology*
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² Also Clinical Assistant in Medicine.

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¹ANTHONY A. BIANCO, B.S., M.D., *Medicine*
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ELIZA HUNTON CALDWELL, A.B., M.D., *Pediatrics*

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 JUDITH B. DE FOREST, A.B., M.D., *Psychiatry*
 HAROLD J. EISENBERG, B.S., M.D., *Pediatrics*
 THEODORE H. ELSASSER, M.D., F.A.C.S., *Surgery*
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 GERALD FLAUM, A.B., M.D., M.D.S.C.D., *Medicine*
 JOHN A. FRANK, B.S., M.D., *Psychiatry*
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 LELA L. GREENWOOD, A.B., R.N., *Therapeutics*
 BENJAMIN B. GURLAND, B.S., M.D., *Ophthalmology*
¹EINAR G. GUSTAFSON, A.B., M.D., *Medicine*
 HERBERT B. GUYER, B.S., M.D., *Obstetrics and Gynecology*
¹WILLIAM HENRY HANNA, A.B., M.D., *Ophthalmology*
¹IRVING J. HANSSMANN, A.B., M.D., *Medicine*
 MARGARET HARLAND, A.M., PH.D., *Anatomy*
 PATRICIA J. HARRISON, A.B., M.D., *Pediatrics*
 REJANE M. HARVEY, A.B., M.D., *Pathology*
¹ERNEST T. HEFFER, A.B., M.D., *Pediatrics*
¹CHARLES C. HERBERT, A.B., M.D., *Therapeutics*
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 VIRGINIA IRBY, B.S., *Pediatrics*
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¹MATTHEW LEVINE, B.S., M.D., *Psychiatry*
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¹PHILIP GOLDSTEIN, B.S., M.D., *Medicine*
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² Also Dean W. Horace Hoskins Fellow in Comparative Pathology.

³ Leave of absence, government service.

⁴ Leave of absence, due to illness.

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² Also Assistant in Pathology.

STANDING COMMITTEES

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R. Keith Cannan	William C. Von Glahn
Luther Emmett Holt, Jr.	George B. Wallace
Colin M. MacLeod	S. Bernard Wortis
Henry E. Meleney	Arthur M. Wright
John H. Mulholland	Clarence E. de la Chapelle,
Donal Sheehan	Assistant Dean
Homer W. Smith	Edgar S. Tilton, <i>Secretary</i>
Howard C. Taylor, Jr.	

Committee on Admission

Edgar S. Tilton, <i>Secretary</i>	Faculty members appointed by the Dean
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UNIVERSITY COMMISSION ON GRADUATE WORK

A University Commission on Graduate Work correlates and governs the graduate programs in the Graduate School of Arts and Science, School of Education, Graduate School of Business Administration, College of Engineering, School of Law, College of Medicine, Graduate Division for Training in Public Service, and the School of Retailing. The Commission consists of the deans and two members (one elected and one appointed) of the faculty from each of the six schools first named above, the Provost, the Chancellor or his representative, and a chairman nominated by the Chancellor and appointed by the Council.

COLLEGE OF MEDICINE

HISTORICAL SKETCH

The creation of a medical college had always been part of the plans of the University founders, as shown by the fact that as early as 1837, only six years after the granting of the first charter, the minutes of the meetings of the University Council contained the names of men suggested as professors for the chief branches of medical instruction. It was not until 1841, however, that the University Medical College was organized and instruction was begun under the following faculty: Valentine Mott, professor of surgery; Granville Sharp Pattison, professor of anatomy; John W. Draper, professor of chemistry; John Revere, professor of theory and practice of medicine; Martin Paine, professor of institutes of medicine and materia medica; Gunning S. Bedford, professor of obstetrics and diseases of women and children.

Bellevue Hospital Medical College was founded in 1861 when a college building was erected upon the hospital grounds, although clinical instruction had been given in Bellevue Hospital since 1847 by individual members of the medical board. The first faculty consisted of: Stephen Smith, principles and practice of surgery; Frank Hastings Hamilton, surgery of bones and accidents; James R. Wood, operative surgery and surgical pathology; Alexander B. Mott, surgical anatomy; Lewis A. Sayre, orthopedic surgery; Isaac E. Taylor, Fordyce Barker, George T. Elliot, Jr., obstetrics; Benjamin W. McCreedy, materia

medica and therapeutics; John William S. Gouley, anatomy; Austin Flint, principles and practice of medicine; Austin Flint, Jr., physiology; R. Ogden Doremus, chemistry and toxicology.

With the passing of years and the growth of the university ideal in medical education, it became clear that both schools would be benefited by a consolidation under university control. As a result, the medical college was established in its present form in 1898 when it became an integral part of New York University under the name of University and Bellevue Hospital Medical College. In February 1935 this name was changed to New York University College of Medicine.

COLLEGE BUILDINGS

The property owned by New York University for the College of Medicine has been acquired gradually over a number of years and now occupies three blocks fronting on the west side of First Avenue from Twenty-fifth to Twenty-eighth Street and one block on the east side of First Avenue from Twenty-fifth to Twenty-sixth Street, as far east as the Nurses' Home of Bellevue Hospital.

The Twenty-eighth Street building extending from Twenty-seventh to Twenty-eighth Street houses the offices of administration, the departments of anatomy, chemistry, clinical pathology, pathology, and radiology, the chemical laboratories of the department of medicine, the College Clinic, the Egbert Le Fevre Memorial Library, two lecture halls, and the department of student health.

The several buildings located between Twenty-fifth and Twenty-sixth Streets on First Avenue are occupied by the departments of bacteriology, physiology, pharmacology, dental anatomy, as well as research laboratories of certain of the clinical departments. The Twenty-sixth Street building likewise houses the Wyckoff Memorial Lounge, the lounge library and reading room, and two lecture halls.

The Carnegie Laboratory adjoining the Twenty-sixth Street building faces on East Twenty-sixth Street and contains a large auditorium, portions of the departments of bacteriology and physiology, the office of the superintendent of buildings, a lounge for women students, and a dormitory for the use of fourth-year students while on night duty on the obstetrical service at Bellevue Hospital.

The Loomis Laboratory, which is located at 414 East Twenty-sixth Street, is occupied by certain of the laboratories of the clinical departments. Next door is the old University Medical College building, now used as an annex to the Loomis Laboratory.

The department of preventive medicine occupies two floors of the Lower East Side Health Center building at 341 East Twenty-fifth Street.

HOW TO REACH THE COLLEGE OF MEDICINE

The College of Medicine may be reached in several ways:

Third Avenue elevated, Twenty-third and Twenty-eighth Street stations, east to First Avenue

First and Second Avenue bus or Third Avenue trolley, east to First Avenue

Lexington Avenue and Broadway (Brooklyn-Manhattan Transit) subways, Twenty-third Street station, crosstown bus to First Avenue, north to Twenty-sixth or Twenty-eighth Street; or Twenty-eighth Street station, east to First Avenue

NEW MEDICAL CENTER

New York University College of Medicine has announced a four-point program for the advancement of medicine. This plan culminates a two-year study by the faculty of medicine on major problems facing medicine in the postwar era. Aimed at the needs of medical education, research, and patient care, the program includes: (1) full recognition of medicine as a social science, with the emphasis, both in the teaching and in practice, upon the environmental and psychologic aspects of illness; (2) increased instruction for the student in the physical sciences of biology, chemistry, and, in particular, physics; (3) a planned research program for the College of Medicine based on the coordinated work of many departments and directed toward the solution of specially selected major problems facing medicine today; (4) a plan of community medical care to provide comprehensive diagnosis and treatment under a prepayment group practice system.

This program will be made possible by the opportunity offered for the development of the New York University - Bellevue Medical Center. The University will be responsible for six major building

units of the \$27,500,000 project. New York City previously had announced plans for the extensive rebuilding of Bellevue Hospital buildings in the present Bellevue area between 26th and 30th Streets at a cost of \$12,500,000. The City's plans for rebuilding Bellevue Hospital include a 3,200-bed institution. It has 3,000 beds now, and New York University College of Medicine is responsible for nearly three fourths of them.

Designed to carry out a comprehensive postwar educational program, the University's buildings will cover the four city blocks between 30th and 34th Streets, First Avenue and the East River Drive, immediately north of the present Bellevue Hospital section. The six building units to be erected by the University will cost \$15,000,000, including equipment and maintenance for the first five years. They will include a new College of Medicine building, a University Clinic, a 480-bed University Hospital, a ten-floor Hall of Residence of 279 rooms to provide living quarters for students unable to reside at home, a 500-seat auditorium (Alumni Hall), and an Institute of Forensic Medicine which will be the first of its kind in the world.

The principal unit of the College of Medicine's building program will be the fourteen-floor University Hospital, a slender structure resting on the base of the five-floor medical school to form a nineteen-floor building. Its foundation will be H-shaped with four five-story wings with floors for each of the major departments of the medical school. The University Clinic will occupy the first two floors of the main building. The general architectural character of the buildings to be erected by New York University will be of modern design in keeping with the functional requirements of a closely integrated school, clinic, and hospital.

LIBRARY

Librarian: Helen R. Bayne, A.B.
Assistant Librarian: Gladys Codlin
Assistants: Sonia Slocum, Estelle M. Westheffer

The Egbert Le Fevre Memorial Library was established in 1914 in memory of Dr. Egbert Le Fevre, a former dean of the College of Medicine. It is a general medical library comprising monographs, reference books, files of journals and current periodicals, including the

principal foreign publications. Departmental libraries in anatomy, chemistry, medicine, pharmacology, physiology, surgery, and neuropsychiatry are also included in the main collection, making a total of about thirty thousand volumes.

The library has been most fortunate in recent years in being the recipient of donations from the faculty and of gifts from the libraries of some notable physicians, among whom are Egbert Le Fevre, Hermann M. Biggs, Joseph D. Bryant, Robert J. Carlisle, Edward K. Dunham, Austin Flint, John A. Fordyce, Alexander Liautard, William C. Lusk, Carlos F. MacDonald, Charles McBurney, Jacob Rosenbloom, Lewis A. Sayre, Reginald H. Sayre, Harold D. Senior, A. Alexander Smith, Webb W. Weeks, and Jesse G. M. Bullova.

The library is located in the Twenty-eighth Street building and includes, in addition to the stack rooms and the office of the librarian, faculty and student reading rooms.

Students also enjoy certain privileges at the other libraries of the University, containing a total of over six hundred thousand volumes, as well as at the library of the New York Academy of Medicine and at the various public libraries of the City.

Instruction in the use of the main bibliographical aids is given by the librarian.

The library is open from 9.00 a.m. to 9.00 p.m. daily except Saturday, when it is open from 9.00 a.m. to 5.00 p.m.

CLINICAL FACILITIES

NEW YORK UNIVERSITY CLINIC

The College Clinic occupies the ground floor and first two floors at the south end of the Twenty-eighth Street building, with an entrance at 463 First Avenue.

During the past year 39,339 patients were treated in the Clinic, an average of 132 daily. Besides the general medical and surgical clinics, there are those for the various specialties; and the organization as a whole is coordinated with the laboratories of pathology, clinical pathology, and other departments. An important adjunct of the College Clinic is the Edward N. Gibbs Memorial X-Ray Laboratory. The social-service department functions in the admission, follow-up, and treatment of patients.

Third- and fourth-year students, in small sections, receive practical instruction in the College Clinic daily and fourth-year students have access to most of its subdivisions through the elective courses.

BELLEVUE HOSPITAL

This hospital, located directly opposite the medical college buildings, is one of the largest of twenty-six municipal hospitals of New York City. It presents accommodations for 3,325 patients, treating especially those with acute diseases. During the past year, 59,766 persons were admitted to its wards.

The hospital is organized in four divisions; of these the third and fourth are known as the New York University Divisions and all appointments to their staffs are made upon recommendation of the faculty. The services directly comprising the New York University Divisions include the following number of beds: medicine 236, surgery 264, children's medicine 155, obstetrics and gynecology 255, otorhinolaryngology 105, ophthalmology 81, dermatology and syphilology 297, radiation therapy 26, children's surgery 60, and orthopedics 111. The director of the Psychiatric Service, which is separately located in a new 630-bed pavilion, is professor of psychiatry in the College of Medicine. The medical and surgical care of patients on this service is the responsibility of the New York University Divisions. Separate wards are set aside for psychiatric patients requiring such care, adding 536 and 94 beds respectively to the medical and surgical services of the New York University Divisions. The special services of other divisions, including the neurological and urological services and 65 beds on the Tuberculosis Service, are also open to the students of the College of Medicine and are used throughout the year for instruction in these subjects. The professor of pathology is director of the pathological laboratories of Bellevue Hospital. During 1944 the necropsies from New York University services alone numbered 426.

In the Outpatient Department of Bellevue Hospital, 14,951 new patients were treated during the past year. The various clinics of this department are utilized throughout the year for instruction to third- and fourth-year students in small groups.

The foregoing statement suffices to show the extensive clinical facilities provided by Bellevue Hospital. These can, perhaps, be best

summarized by the comment that in only one branch of medicine, namely, the contagious diseases of childhood, is it necessary for the students to look outside Bellevue Hospital.

The fact that practically all members of the visiting staffs of the Third and Fourth Divisions of Bellevue Hospital are on the teaching staff of the College of Medicine is of the utmost importance in the organization of instruction and in the coordination of the laboratories and facilities of the college with the care of the sick and the investigation of disease in the hospital.

GOLDWATER MEMORIAL HOSPITAL

This hospital opened in July 1939, with 400 beds assigned to the Third (New York University) Division. The services include medicine, surgery, neurology, and a research service. Bedside instruction is offered in a variety of chronic diseases, mainly: cardiac, renal, and vascular diseases; diseases of bone, blood, and neurological disorders. Appointments to the visiting and house staffs are made on recommendation of the College of Medicine. The heads of the various services are:

¹Dr. J. Murray Steele—Director of Third Medical Division

Dr. W. Howard Barber—Director of the Third Surgical Division

Dr. Milton B. Rosenblüth—Acting Director of Third Medical Division

Dr. James A. Shannon—Director of the Research Service of the Third Division

Dr. S. Bernard Wortis—Visiting Neuropsychiatrist in charge of the Neurological Service

WILLARD PARKER HOSPITAL

This hospital, which is situated at the foot of East Fifteenth Street, is devoted to the treatment of scarlet fever, diphtheria, measles, and other contagious diseases. Practical bedside instruction in the diagnosis and treatment of these diseases is afforded to students during the fourth year. This institution, which is easily accessible from the college buildings, contains about 424 beds.

¹ Leave of absence, military service.

HOSPITALS IN WHICH ELECTIVE COURSES ARE GIVEN

Elective courses open to fourth-year students are given at the following hospitals:

- Bellevue Hospital (First Avenue at 26th Street)
- Beth Israel Hospital (Stuyvesant Park East)
- City Hospital (Welfare Island, N. Y.)
- French Hospital (324 West 30th Street)
- Goldwater Memorial Hospital (Welfare Island, N. Y.)
- Lenox Hill Hospital (76th Street at Park Avenue)
- Memorial Hospital (York Avenue at 68th Street)
- Queens General Hospital (161st Street and 82d Drive, Jamaica, L. I.)
- Roosevelt Hospital (59th Street at Ninth Avenue)

REQUIREMENTS FOR ADMISSION

New York University College of Medicine is operating on an accelerated schedule whereby the medical course of four academic sessions is completed in three calendar years. The minimum requirement for admission to this college of medicine is two years in an approved college of arts and science but, for the session starting in October 1945, preference will be given to those who have completed three years of pre-medical study.

Pre-medical preparation must include the following courses:

CHEMISTRY—12 semester hours,¹ including laboratory. This must include an approved course in organic chemistry.

PHYSICS—6 semester hours including laboratory.

BIOLOGY—6 semester hours including laboratory.

LANGUAGE—6 semester hours of English and a reading knowledge of French, Spanish, or German.

The courses given in professional schools of pharmacy, veterinary medicine, and agriculture are not considered as fulfilling adequately the admission requirements.

¹ A semester hour is one hour of lecture or recitation or two hours of laboratory work per week for one half year or sixteen weeks.

The University College of Arts and Pure Science at University Heights and Washington Square College of Arts and Science at Washington Square, both branches of New York University, offer a medical preparatory course which includes these required subjects. For matriculation blanks and further information, apply to the Office of the Registrar, New York University, Washington Square, New York 3, N. Y.

METHOD OF MAKING APPLICATION

All applications and inquiries regarding admission should be addressed to the Secretary, New York University College of Medicine, 477 First Avenue, New York 16, N. Y., from whom application forms may be obtained.

Students who have failed in another medical school are *not* eligible to apply for admission.

An application fee of \$5.00 is required of all students who apply. This fee is not returnable.

Three letters of recommendation are required: one from each of the following departments—biology, chemistry, physics. Official recommendations from a faculty committee are acceptable in lieu of letters.

Official certification of college record should be sent directly to the secretary.

It is not possible for the committee on admissions to interview all candidates for admission, as the number is too great. Certain individuals from the group of applicants may be requested to appear before the members of the committee.

ADMISSION TO ADVANCED STANDING

Applicants for advanced standing are considered, but, because of the large enrollment, comparatively few students are admitted. The number is contingent upon the places that may be available.

Students who have failed in another medical school are *not* eligible to apply for admission to advanced standing.

Applicants for advanced standing must have met in full the following requirements:

They must have satisfactorily completed pre-medical work credited as two years prior to entrance in medical school.

They must have satisfactorily completed two years of work in an approved medical school.

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MATRICULATION

Students whose applications have been accepted are required to make a deposit of \$50.00 within a period of ten days after notification of favorable action on their applications. This deposit is not returnable but is credited toward the first tuition payment.

Those students who have been accepted will be instructed about obtaining a medical student qualifying certificate from the New York State Department of Education.

REGISTRATION

At the beginning of each session, all students must register at the office of the secretary at 477 First Avenue, New York, N. Y.

All students must make a payment on their general tuition fee as described under the schedule of fees.

ADVANCEMENT IN COURSE

The advancement of a student from one year of study to the next and the recommendation of a student for graduation will be by action of the faculty through its executive committee.

The executive committee will base its decisions upon the reports of those departments in which the student has received instruction in the period since he passed a previous examination and upon the results of examinations conducted under its direction by its examining boards.

An *approved candidate* will be admitted to full standing in the succeeding year of the course or, in the case of the final examination, will be recommended for graduation subject to the conditions given below.

A candidate *refused further registration*, as the term implies, will not be allowed further registration at the College of Medicine and will receive no credit for the work of the year just completed.

The faculty of medicine reserves the right to refuse further registration to any student whom it believes to be unsuited, for any reason, to the conditions of study in this school.

EXAMINATIONS

The executive committee of the faculty may require a student to submit to such written, oral, and practical examinations as it may think proper in each individual case.

The regulations governing examinations are subject to change at any time on the decision of the faculty; at the present time these regulations are as follows:

The Preliminary Examination qualifying for admission to the second year.

This examination will be designed to provide evidence that the ability of the candidate in the subjects of anatomy, biostatistics, chemistry, and physiology and his understanding of the essentials of the fundamental pre-medical subjects are such as to qualify him for admission to the second year.

The examination will consist of not less than nine hours of written examination or of its equivalent in oral or laboratory examinations. A student may be exempted from the preliminary examination upon the unanimous recommendation of the pre-clinical examining board.

The Intermediate Examination qualifying for admission to the third year.

This examination will be designed to establish evidence that the candidate has such comprehensive understanding of the essentials of the pre-clinical sciences—*anatomy, bacteriology, biochemistry, pathology, pharmacology, physiology*—as to qualify him for admission to instruction in clinical medicine. No student will be granted exemption from this examination.

The examination will consist of not less than nine hours of written examination or of its equivalent.

The Third Qualifying Examination qualifying for admission to the fourth year.

This will be a written examination designed to establish evidence that the candidate has adequate comprehension of the field of instruction of the third year.

No student will be granted exemption from this examination.

The Final Examination qualifying for graduation.

This examination will be designed to establish convincing evidence that a candidate has that comprehensive knowledge of the field of theoretical and practical medicine as shall, in the opinion of the faculty, qualify him for the practice of medicine and shall maintain a high standard for the University degree of Doctor of Medicine.

Candidates will be required to satisfy the examiners at oral examinations conducted in each of the four major clinical departments and at such written examinations as the committee may require.

All students, without exception, will be required to pass the final examination before they are recommended for graduation.

REQUIREMENTS FOR GRADUATION

Students may become candidates for graduation under the following conditions:

1. They must have completed four years of medical work of which the last two years must have been taken in this institution, and they must have been approved in the final examination.
2. They must, as required by law, have reached the age of twenty-one years.
3. They must have discharged all their financial obligations to the University.

Students who meet these requirements will be recommended to the Council of New York University for the degree of Doctor of Medicine.

MEDICAL LICENSURE

New York State Board Examinations: Applications for admission to the examinations must be filed at Albany at least fifteen days prior to the date of the examinations. Complete information concerning the New York State Board Examinations is contained in Handbook No. 9, which can be obtained by writing to the Chief, Professional Examinations Bureau, New York State Department of Education, Albany, N. Y.

Examinations are given in anatomy, chemistry, diagnosis, hygiene, obstetrics and gynecology, pathology and bacteriology, physiology, and surgery. These examinations are held in Albany, Buffalo, New York, and Syracuse. Following is a list of scheduled dates:

1946
January 28-31
June 24-27
October 7-10

National Board Examinations: The certificate of the National Board is recognized by the licensing authorities of the following fifty States and territories: Alabama, Alaska, Arizona, Arkansas, California, Canal Zone, Colorado, Connecticut, Delaware, District of Columbia, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Puerto Rico, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, and Wyoming. Diplomates of the National Board are also admitted to the final examinations of the

Conjoint Examining Board of England, the Triple Qualification Board of Scotland, and the Conjoint Board of Ireland.

The dates of the examinations in Parts I and II in 1946 will be selected in accord with the accelerated curricula in the medical schools. It is expected these examinations will be held at least three times a year.

Applications for these examinations should be made at least one month in advance of the date of the examination. Additional detailed information may be obtained by writing to Mr. Everett S. Elwood, executive secretary, National Board of Medical Examiners, 225 South Fifteenth Street, Philadelphia 2, Pa.

FEES¹

The Council of New York University reserves the right to alter this schedule of fees without notice.

The medical course consists of four academic sessions. A fee of \$600.00 per academic session is charged to all undergraduate students in the College of Medicine. In addition to general instruction, this fee covers all laboratory fees, the medical fee, and the library fee; for final session students this also includes the graduation fee. An additional charge of \$6.00 during the final session is made for room services covering the time spent in the dormitory while on night obstetrical duty.

No candidate may be recommended for a degree until all required fees have been paid. The University cannot be responsible for the inclusion in the current official graduation list of any candidate who pays fees after the stated date. Following the payment of all required fees, the candidate will be recommended for the degree as of the date of the next regular meeting of the University Council at which the awarding of degrees is part of the order of business.

Should a student withdraw from his course for any reason other than serious illness, no fee will be refunded.

PAYMENT OF FEES²

Students may select either Plan I or II for the payment of fees.

I. Full-Payment Plan

Upon registration:

General instruction, including laboratory, library, and

medical fees \$600.00

¹ A deposit of \$50.00 is required of all accepted applicants. This deposit is applied to the first tuition payment and is not returnable.

Students are required to provide themselves with dissecting sets and laboratory materials (slides, cover glasses, and boxes for storing slides, etc.) and textbooks as recommended by the heads of the various departments; these become their personal property. All materials and books are sold at the college bookroom.

² Students who comply with the military withdrawal regulations of the University will be permitted to resume classes, as provided in those regulations, without financial loss.

II. Two-Payment Plan

Upon registration:

General instruction, one-half academic session, including laboratory, library, and medical fees \$300.00

At midterm:

General instruction, one-half academic session 300.00

Checks should be made payable to New York University College of Medicine for the exact amount of tuition.

Alumni of the College of Medicine or of either of the two medical colleges through the union of which it was formed are admitted without fee to the lectures and clinics of the third and fourth years.

ESTIMATE OF EXPENSES FOR STUDENTS TAKING A
FULL COURSE FOR ONE SESSION

Fees

General instruction, including laboratory, library, and medical fees	\$600.00
Board	300.00
Room	230.00
Supplies (books, etc., not including microscope)	75.00
<i>Total</i>	<u>\$1,205.00</u>

DISCIPLINE

In order to safeguard its ideals of scholarship, character, and personality, the University reserves and the student concedes to the University the right to require the withdrawal of any student at any time. A pro rata return of fees will be made if further attendance of any student is prohibited before the end of a term for which such student shall have paid his fees.

TRANSCRIPTS

Transcripts of medical-school records are never issued to the student, but are sent directly to the institution requiring such information. There is no charge for the first transcript, but a fee of \$1.00 is charged for each additional one.

REQUIRED EQUIPMENT

All civilian students entering the College of Medicine are required to provide themselves with microscopes for use throughout their medical course. Such microscopes must meet the minimum requirements set by the committee on scientific instruments as noted below:

Triple nose piece (quadruple nose piece recommended)

Division condenser of the Abbey type

Oculars—one will be required. Suitable lenses as designated by two of the leading manufacturers are listed below:

Bausch and Lomb—10x

Spencer—10x

Objectives—four will be required. Suitable lenses as designated by two of the leading manufacturers are listed below:

Bausch and Lomb—40mm., 16mm., 4mm., and 1.9mm.¹Spencer—40mm., 16mm., 4mm., 1.8mm.¹

A mechanical stage is required as standard equipment.

Arrangements have been made with the manufacturers whereby students may purchase microscopes through the college bookroom. Students are advised to avail themselves of this service since it offers the advantage of a favorable price and of an instrument that meets the above requirements. Information may be obtained at the college bookroom in the Twenty-sixth Street building.

Other required equipment recommended by the committee on scientific instruments, such as instruments used in certain of the laboratory courses and those needed for the examination of patients, are announced in classes and also by means of notices posted on the bulletin boards.

DEPARTMENT OF STUDENT HEALTH

Physician in charge: Adolph R. Berger, M.D.

Assistant Physician: Henry D. Lauson, M.D.

The College of Medicine undertakes active supervision of the health problems of the student body. The supervision begins with a complete physical examination of all students who have been accepted for the entering class. Included in the examination are a chest roentgenogram, a tuberculin test, and blood Wassermann and Kahn tests. Abnormalities detected are actively

¹ Oil immersion; the lens is not needed until the second year.

followed up. Every student is re-examined roentgenographically annually; the tuberculin, Wassermann, and Kahn tests are repeated in the fourth year.

Student health office hours are from 12.30 to 1.30 p.m. daily, at which time students requiring attention are seen. Provision is made for caring for emergencies occurring at other hours. Students from out of town living in the neighborhood of the College of Medicine are visited in their rooms and cared for by the staff of the student-health office if necessary.

Emergency and other cases requiring hospitalization are cared for by the student-health staff or other members of the College of Medicine staff. Such students who are admitted to Bellevue Hospital are subject to the regulations that govern all patients in City hospitals. Cost of hospitalization is not covered in the general tuition fee.

SCHOLARSHIPS AND LOAN FUNDS¹

Christian A. Herter Scholarship. This scholarship was founded for the encouragement of research in chemical pathology, physiological chemistry, or pharmacology. The annual income is awarded each year to a graduate, or undergraduate, who has already demonstrated aptitude for physiological and chemical research.

Joseph D. Bryant Medical Scholarship. By the will of the late Joseph D. Bryant, a former professor of surgery, a trust was created for the benefit of the College of Medicine, the income thereof to be devoted in perpetuity to the establishment and maintenance of one or more medical scholarships, preferably for some worthy medical student or students from Norwich, Chenango County, New York.

Leo C. Van Wagner, M'91, Scholarship Fund. The income to be used for scholarships in the College of Medicine. This is open only to residents of Chenango County and Otsego County in the State of New York. Each applicant must be sponsored by the censors or governing committee of the Medical Society of such county. He must be in good physical condition and must agree to reside and practise medicine for a period of at least five years immediately after the completion of his medical education in either or both of the counties mentioned above, other than in the cities of Norwich and Onondaga.

Eastern Medical Society Scholarship. This scholarship, the gift of the Eastern Medical Society, provides full tuition for one, or part tuition for two, students of the junior or senior class.

Student-Aid Fund. The purpose of this fund is to give aid to those stu-

¹ Applications for scholarships should be made through the office of the secretary.

dents who are beset with such financial difficulties that they are unable to complete their medical course. In view of the fact that this fund is limited, preference is given to members of the third- and fourth-year classes.

David Marks Memorial Loan Fund. This fund has been established by Mrs. A. Braslau and Miss Sophie Braslau in memory of Dr. Marks in the hope that his unselfish, beautiful spirit will serve as an inspiration and incentive to the lofty and noble attainments that characterized his life.

Robert J. Carlisle Student Loan Fund. This fund has been provided by gifts received from the alumni of the College of Medicine to afford needy students the financial assistance to complete their medical course.

John E. Weeks Scholarship Fund. By a gift of Dr. John E. Weeks, professor emeritus of ophthalmology, this fund has been established for scholarships.

Class of 1915 Student Loan Fund. This fund was established by members of the class of 1915 to afford financial assistance to one or more worthy students.

James W. Keenan Memorial Research Scholarship Fund. This scholarship was established, through Dr. Meyer J. Kutisker of the department of surgery, by Morris Wolf, as executor under authority conferred by the will of James W. Keenan, deceased. The income is to be awarded annually to a member of the student body, preferably in the third- or fourth-year class, for research to be conducted in the department of surgery.

College League, New Jersey Division. The College League, New Jersey Division, offers to a freshman woman student of Northern New Jersey entering any division of the University in September 1945 a scholarship of one hundred and fifty dollars. The award is made on the basis of need, scholarship, personality, and character, on nomination of a committee composed of three members of the College League and two members of the faculty of New York University.

Borden Undergraduate Research Award in Medicine. An award of \$500 is made each academic year to the student in his senior year who, during any part of his medical course, has shown outstanding ability in research. The award is presented at the time of graduation.

PRIZES

Mott Prize Medals. By the will of Dr. Valentine Mott, a founder of the University Medical College, and for many years its president and professor of surgery, provision was made for the following medals:

A silver medal to the candidate who has attained an honor standing in

anatomy during the first year and who submits the best essay illustrated by an anatomical preparation on some problem in anatomy or surgical anatomy.

A bronze medal to the candidate who shall furnish the best notes (type-written) on recorded cases and remarks of the professor of the surgical clinics.

Candidates for graduation as well as first-, second-, and third-year students may compete for these medals.

The preparations shall belong to the University Mott prize museum in the department of anatomy and be labeled with the names of the students submitting them.

Reports of cases shall belong to and be filed in the library.

Further information regarding the preparations or reports will be furnished by the professor of anatomy or surgery.

Alpha Omega Alpha Prizes. The Alpha Omega Alpha honorary fraternity awards prizes annually to the three students who have attained the highest scholastic ratings for the four years of their medical course.

Glover C. Arnold Surgical Prize. A prize of fifty dollars is offered to the member of the senior class passing the best examination in general surgery. This prize was established by the family of Dr. Glover C. Arnold, a graduate of the class of 1873.

Maurice Freiman Memorial Prize. A bequest in memory of the late Dr. Maurice Freiman, an alumnus of the medical college, provides for a prize to be awarded annually to a student or students for exemplary and outstanding work.

Herman Wortis Neuropsychiatric Prize. This prize, the income of a fund of \$1,000 given in memory of Herman Wortis, M.D., formerly assistant professor of clinical psychiatry, is awarded annually at commencement to the member of the senior class who has done the best work in the departments of psychiatry, neurology, and medicine.

FELLOWSHIPS

John Wyckoff Memorial Fellowship Fund. This fund was established through gifts of faculty and alumni (through the Alumni Fund) and friends of the late Dean Wyckoff for a fellowship to be awarded annually in the department of medicine.

Albion O. Bernstein Fellowship. This fellowship was established through the generosity of Mr. M. J. Bernstein in memory of his son. The fellowship will be awarded annually to a worker in a field of research to be selected by a special committee.

LECTURESHIPS

Herter Lectureship on Pathological Chemistry. Dr. Christian A. Herter, a former professor of pathological chemistry, through the Council of New York University provided a fund for an annual course of lectures on this subject. For the October 1944 session, the Herter Lectures were given by Dr. Peyton Rous of the Rockefeller Institute.

John Wyckoff Lectureship. This lectureship, established in 1937 by the Phi Delta Epsilon fraternity as a memorial to the late Dean Wyckoff, provides a fund for an annual lecture on a clinical subject. The lecturer for the October 1944 session was Albert R. Behnke, M.S. (Hon.), M.D., Commander, Medical Corps, United States Navy, Research Executive, Naval Medical Research Institute.

SOCIETIES

The Students' Association of the College of Medicine. Founded in 1933, it operates under a constitution which defines the objects of the association as the fostering of student fellowship and the encouragement of corporate student activities. The association assumes responsibility for the care and maintenance of the student quarters and the control of their use for the best advantage of its members. An initiation fee of \$5.00 for all new members of the association and yearly dues of \$5.25 are set by the student council. All members receive the monthly *Medical Bulletin* and the annual yearbook which are published under the auspices of the students' association.

Alpha Omega Alpha Honorary Fraternity. A chapter of the Alpha Omega Alpha honorary fraternity was established at New York University in 1923. Selection of members is on the basis of scholarship; not more than one tenth of any class is eligible for selection.

There are other student medical organizations. The *William Welch Society* was founded in 1929 by undergraduates for the "advancement of the study of medical history and culture among medical students." Meetings are held each month at which papers dealing with medical history are presented by invited speakers or by the members. The *Friends of the Le Fevre Library* was established in 1937 with the purpose of furthering the interests of the library. The *Medical Students Club* is sponsored by the Y.M.C.A. and holds occasional meetings in the college building throughout the year. The *Medical Psychology Club* is a discussion group and holds meetings at regular intervals.

New York University Medical Society. The College Medical Society was

founded in 1899 with the purpose of "stimulating the growth of a greater solidarity in the corps of teachers in the college and facilitating cooperation among the various departments." The membership includes all those associated with the college in a teaching capacity and the residents and interns of the Third and Fourth (New York University) Divisions of Bellevue Hospital. Meetings, at which scientific papers are presented, are held on the second Monday evening of every month throughout the academic year.

College of Medicine Alumni Association. The Association serves a common bond between the college and all graduates, not only of the present school but also of the old University Medical College and Bellevue Hospital Medical College. The officers for 1944-1945 are: president, Hervey C. Williamson, '08; vice-president, Hippolyte M. Wertheim, '20; secretary, William Goldring, '22; treasurer, Oswald N. LaRotonda, '13. Alumni Federation Directors: John M. Loré, '15 (to 1946); Hippolyte M. Wertheim, '20 (to 1947); Henry H. Ritter, '10 (to 1948). The Association publishes a quarterly magazine, the *New York University Medical Quarterly*, for which Arthur C. DeGraff, '21, serves as editor.

GENERAL PLAN OF INSTRUCTION

The course of study required of all students who are candidates for the degree of Doctor of Medicine extends over four academic sessions of approximately nine months each.

The first and second years are divided into trimesters, and the fourth into clerkship blocks of three and six weeks. The third year is undivided. This plan for the fourth year makes it possible to coordinate clinical instruction with the organization of the Third and Fourth (New York University) Divisions of Bellevue Hospital. All students have a vacation period of from three and a half to four weeks during the year.

All work summarized in the outline on page 66 is required. The work of the first year and of the first two trimesters of the second year is chiefly in the pre-clinical subjects; the third trimester is clinical in content and is given over to orientation and transition study linking the pre-clinical years with those to follow. During the third and fourth years the work is mainly clinical with an increasing proportion of the time spent on the wards, so that the entire instruction of the fourth year is given in the hospital. This is not in any way intended to replace the clinical training afforded by the later work in hospital internships, but is planned to prepare the students for such work.

During the fourth year, full time for a period of six weeks is given over to elective work; in other years, elective courses are offered, but are op-

tional. In addition, students with special aptitude are encouraged to work as volunteers in various departments.

Exceptional students, at the discretion of the faculty, may elect to interrupt the regular course at any time after the first year in order to devote more time to certain departments. By this flexibility it is hoped that the exceptional student with a bent for teaching and investigation may have an opportunity for individual development, while the chief aim of the College of Medicine, namely, that of graduating students with the best possible training for the practice of medicine, may be achieved.

The curriculum as published is subject, at any time, to changes adopted by the committee on curriculum.

Year	Trimester	Subject	Hours
1	I	Pre-clinical	120
		Physiology	120
		Chemistry	120
2	I	Pre-clinical	120
		Physiology	120
		Chemistry	120
2	II	Pre-clinical	120
		Physiology	120
		Chemistry	120
2	III	Pre-clinical	120
		Physiology	120
		Chemistry	120
3	I	Pre-clinical	120
		Physiology	120
		Chemistry	120
3	II	Pre-clinical	120
		Physiology	120
		Chemistry	120
3	III	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	I	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	II	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	III	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	IV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	V	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	VI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	VII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	VIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	IX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	X	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XIV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XVI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XVII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XVIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XIX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXIV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXVI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXVII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXVIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXIX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXIV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXVI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXVII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXVIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XXXIX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XL	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLIV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLV	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLVI	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLVII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLVIII	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	XLIX	Pre-clinical	120
		Physiology	120
		Chemistry	120
4	L	Pre-clinical	120
		Physiology	120
		Chemistry	120

SUMMARY OF REQUIRED STUDIES

COURSES	HOURS			
	1st Year	2d Year	3d Year	4th Year
Anatomy	605			
Chemistry	222			
Physiology	242	88		
Bacteriology		198		
Clinical Pathology		66		
Pharmacology		187		
Pathology		319	44	
Medicine (including Therapeutics)		99	239	¹ 284
Surgery		11	198	² 296
Pediatrics			127	¹ 222
Obstetrics and Gynecology			155	¹ 324
Preventive Medicine (including Biostatistics and Parasitic Diseases)	33	77	33	90
Radiology			28	
Neurology		10	44	20
Psychiatry	11	22	48	36
Urology			22	9
Ophthalmology			38	
Otorhinolaryngology			40	
Dermatology			52	
Orthopedic Surgery			2	31
Forensic Medicine			14	1
Electives			2	150
	<hr/> 1,113	<hr/> 1,077	<hr/> 1,084	<hr/> 1,463

¹ Fourth-year work in medicine, surgery, obstetrics and gynecology, and pediatrics consists of full-time clerkships of three and six weeks each. The hours shown here are a rough approximation of the time actively engaged and exclusive of hours spent in reading, analysis of records, etc.

² Optional electives are offered in first, second, and third years.

DESCRIPTION OF COURSES

ANATOMY

Professor and Chairman: Donal Sheehan

Associate Professor: Joseph Pick

Assistant Professors: Walter E. Boehm, Robert Boggs, Margaret A. Kennard (Neuroanatomy and Neurophysiology)

Instructors: Louis L. Bergmann, John L. Boling, Seelig Freund,¹ Samuel T. Herstone

Assistants: Margaret Harland, Sidney Hirsch, W. Ross McCarty¹

FIRST YEAR

Lectures—Two weekly throughout the academic year.

Laboratory—Microscopical anatomy: two three-hour sessions weekly during the first trimester; one three-hour session weekly during the second and third trimesters. Gross anatomy: twelve hours weekly throughout the academic year.

Conferences—One weekly throughout the academic year.

The course extends through the three trimesters of the first year. Gross and microscopical anatomy are coordinated so that the student is dealing with the gross and microscopical appearances of any tissue at the same time. Furthermore, wherever possible, the schedule is so arranged as to run parallel with the teaching in chemistry and physiology. In this way structure and function of any particular organ are studied together. Broadly speaking, the work is divided as follows:

First trimester—The elementary tissues. Gross dissection of the limbs.

Second trimester—The circulatory and respiratory, gastrointestinal, and genitourinary systems. Gross dissection of the thorax and abdomen.

Third trimester—The lymphatics, endocrines, and the peripheral nervous system. Gross dissection of the head and neck.

Embryology—The essentials of human embryology are discussed in lectures and practical classes, in conjunction with gross and microscopical anatomy.

Radiological Anatomy—Given in the department of radiology during the third trimester.

Surface Anatomy—Special classes are arranged to run parallel with gross dissection.

¹ Leave of absence, military service.

SECOND YEAR

Neuroanatomy and Neurophysiology

Lectures—Three a week during the first trimester. Professor Sheehan and staff.

Laboratory—Two full days a week during the first trimester (elective).

ELECTIVE COURSES IN ANATOMY

Fourth-Year Elective

Gross Dissection—Daily, 9.00–11.15 a.m. and 2.00–5.00 p.m. Limited to four students. Credit, 100 or 200 hours. No credit will be given unless dissection is finished satisfactorily and an informal examination is passed.

Experimental Neurophysiology—Limited to two students. Six weeks, full time. Course available from January through June 1945. Credit, 200 hours. Dr. Kennard.

Advanced work in gross and microscopical anatomy and experimental neuroanatomy is offered to a limited number of graduates with special aptitude in these subjects, if facilities permit.

BACTERIOLOGY

Professor and Chairman: Colin M. MacLeod

Assistant Professors: Mark H. Adams, Alan W. Bernheimer, Alwin M. Pappenheimer, Jr.¹

Instructors: L. Royal Christensen, Efraim Racker, Norma C. Styron

Assistant: George J. Stein¹

SECOND YEAR

Lectures—Three hours a week during the second trimester. Bacteriology and immunology are discussed from the standpoint of their relation to disease processes.

Laboratory—Three sessions weekly of three hours each during the second trimester. Attention is devoted to the various basic techniques used in bacteriology, including methods for obtaining pure cultures of organisms and identifying them by biochemical and immunological reactions. Factors in-

¹ Leave of absence, military service.

involved in disease, both as regards the infecting agent and the reactions of the host, are emphasized. Opportunity is presented to examine bacteriologically infected material from man and animals and to correlate the findings with disease processes. Practical instruction is given in diagnostic tests and methods of immunization. The application of the techniques of bacteriology to research in infectious diseases is emphasized. Bacteria, spirochetes, rickettsiae, and viruses are included in the studies, as well as various aspects of the phenomena of hypersensitivity. Departmental staff.

Conferences—Two hours each week are devoted to group discussions.

ELECTIVE WORK IN BACTERIOLOGY

Opportunity is offered to a limited number of students to work in the laboratories during their free time after the completion of their first year.

CHEMISTRY

Professor and Chairman: R. Keith Cannan

Associate Professor: Isidor Greenwald

Assistant Professors: Milton Levy, Severo Ochoa

Instructor: Mary E. Dumm

Assistants: Angelo E. Benaglia, Nelson F. Young

Fellows: Lillian Jedeikin (research), Erna E. Weisz

FIRST YEAR

Human physiological chemistry.

First and Second Trimesters

Lectures—Two each week.

Conferences—One (two hours) each week.

Laboratory—Six hours, once each week.

Third Trimester

One (one hour) conference or lecture each week.

ELECTIVE WORK IN CHEMISTRY

A limited number of students who have shown special aptitude for chemistry may elect to undertake special work in the laboratories of the department in their free time.

DERMATOLOGY AND SYPHILOLOGY

Professor and Chairman: Frank C. Combes

Assistant Professor: Evan W. Thomas

Clinical Professors: Harry C. Saunders, Leo Spiegel, Louis Tulipan

Associate Clinical Professors: Maurice J. Costello, John F. Mahoney, Timothy J. Riordan, Louis Schwartz

Assistant Clinical Professors: William Director,¹ Arthur E. Goldfarb, Herman Goodman, John C. Graham, William Leifer,¹ H. Victor Mendelsohn, Emanuel Muskatblit

Instructors: Isidor Apfelberg, Howard T. Behrman, Vagharshag Boghosian, Orlando Canizares,¹ Irving N. Holtzman,¹ Ralph I. Kreisberg, Clinton H. Martin, Charles Pines

Assistant: Ruth Zuckerman

Fellow: Simeon E. Landy

THIRD YEAR

Lectures—One weekly for sixteen weeks. These are partly didactic and partly clinical, their purpose being to acquaint the student with the basic principles of dermatologic diagnosis and impress upon him the intimate relationship existing between the skin and other organs. It includes consideration of symptomatology, diagnosis, etiology, and pathogenesis of the more common dermatoses. At the close of each lecture the subject of the day is illustrated by lantern slides, photomicrographs, etc.

Lectures on industrial skin diseases are given by Clinical Professor Tulipan and Associate Clinical Professor Schwartz, Director of the Dermatoses Section, United States Public Health Service.

Syphilis is considered from the standpoint of the internist, appropriate attention being given to parasitology, serology, visceral, congenital, and neurosyphilis, as well as its dermatologic manifestations. Also included is its epidemiology, morbidity, clinical and laboratory methods of diagnosis. Modern chemotherapy is discussed in detail. Professor Combes, Assistant Professor Thomas, and Associate Clinical Professor Mahoney.

Section Teaching—Small groups receive practical demonstrations and instruction in diagnosis and treatment of skin diseases and syphilis. Clinical Professor Tulipan, Associate Clinical Professors Riordan and Costello, Assistant Clinical Professor Mendelsohn, and Drs. Boghosian, Martin, Pines, Behrman, and Landy.

¹ Leave of absence, military service.

Each section receives four hours' weekly instruction for a period of eight weeks. Treatment by various physical modalities as applied to diseases of the skin, including roentgentherapy, grenz rays, ultraviolet radiation, diathermy, electrolysis, high-frequency current, galvanism, solid carbon dioxide, etc., are demonstrated. Associate Clinical Professor Costello, Assistant Clinical Professor Graham, and Dr. Apfelberg.

Laboratory instruction includes practical demonstrations in parasitology, immunology, and mycology as it applies to diseases of the skin and syphilis. Assistant Professor Thomas, Associate Clinical Professor Mahoney, and Assistant Clinical Professors Muskatblit and Mendelsohn.

FOURTH-YEAR ELECTIVE COURSE

Dermatology and Syphilology—Daily, 2.00-4.00 p.m., at Bellevue Hospital. Limited to six students. Students work in groups of two in various sub-departments of the skin clinic, serving part of the time as clerks. Instruction is given in the diagnosis and treatment of skin diseases and syphilis, including special therapeutic agents such as Roentgen rays. Students who are especially interested are given opportunities to work in the laboratories. Staff of the department. Credit, 50 hours.

FORENSIC MEDICINE

Professor and Chairman: Harrison S. Martland

Professor: Thomas A. Gonzales

Professor of Toxicology and Forensic Medicine: Alexander O. Gettler

Assistant Professors: Milton Helpern, Benjamin M. Vance

Instructors: Rudolf M. Paltauf, Alexander S. Wiener

THIRD YEAR

Lectures—Eleven are given during the second half of the third year. These cover the salient points about what constitutes a medical examiner's or coroner's case, the various types of violent death, sudden and suspicious deaths, toxicology, and the relationship between the physician and the offices of the Medical Examiner, the coroner, and the courts. Professor Martland and staff.

FOURTH YEAR

One lecture on medicolegal jurisprudence and behavior of physicians in court.

ELECTIVE COURSES IN FORENSIC MEDICINE

Second-Year Elective

Forensic Medicine—Two hours weekly during the third trimester. Limited to twenty students. This is a laboratory course which covers the examination of blood, body discharges, hairs, and clothing; examination in shooting cases; forensic problems of pregnancy; blood groups for paternity tests; signs of death; autopsy technique in medicolegal cases. Under the supervision of Professor Gonzales and staff.

Fourth-Year Electives

1. *Forensic Medicine Seminars*—Saturdays, 9.00–10.00 a.m. This course comprises a series of intimate conferences covering in detail the various types of cases observed by medical examiners. Professor Gonzales and staff.

2. *Necropsy and Laboratory Demonstrations*—Saturdays, 10.00–11.30 a.m. The work covered consists of demonstrations of medicolegal necropsies and various laboratory procedures important in the medical detection of crime. It is open to students taking elective 1, which it supplements. Professor Gonzales and staff. Credit, 40 hours.

3. *Toxicology Laboratory Course*—Daily, 9.00–11.15 a.m. for one elective period in the Pathological Department of Bellevue Hospital. Limited to two students. This course includes laboratory exercises in toxicology covering the conferences given in elective 1. Professor Gettler and staff. Credit, 50 hours.

MEDICINE

Professor and Chairman: William S. Tillett

Professor of Clinical Pathology: Joseph E. Connery

Samuel A. Brown Professor of Therapeutics: Arthur C. DeGraff

Professor of Clinical Medicine: Clarence E. de la Chapelle

Associate Professors: William Goldring, Currier McEwen, Elaine P. Ralli,

James A. Shannon, J. Murray Steele,¹ Evan W. Thomas

Associate Professor of Clinical Medicine: Milton Rosenblüth

Assistant Professors: Herbert Chasis, David P. Earle, Jr., Ludwig W.

Eichna,¹ Robert S. Goodhart,² Charles E. Kossmann, Harry Most,¹ Jules

Redish

Assistant Professors of Clinical Medicine: Adolph R. Berger, Morris Block,¹

¹ Leave of absence, military service.

² Leave of absence, government service.

Marshall S. Brown, Jr.,¹ Joseph J. Bunim, Evan W. McLave, Hilmert A. Ranges, Shepard Shapiro, Alfred Vogl

Clinical Professors: Albert A. Epstein, Luther B. MacKenzie, Charles H. Nammack

Clinical Professor (In charge of Physical Medicine): George G. Deaver

Associate Clinical Professors: Emanuel Appelbaum, Beeckman J. Delatour,

Henry C. Fleming, Norman H. Jolliffe, Arnold Koffler, Harry A. Solomon,

Arthur L. Washburn

Assistant Clinical Professors: Oswald N. LaRotonda, Zachary Sagal, Otto Steinbrocker, Max Trubek, Robert P. Wallace, Lillian C. Warnshuis

Lecturer on Industrial Medicine: Leonard J. Goldwater

Lecturer on Military Medicine: Philip B. Connolly

Research Associates in Therapeutics: Howard M. Fitch, Charles A. Ripson,

Benjamin Schloss, Maxwell Schubert, Nellie Perry Watts

Instructors: Jeanne C. Bateman, Robert W. Berliner, Bernard B. Brodie,

Charles A. R. Connor, Saul H. Fisher, David H. Goldstein,¹ William H.

Harris, Jr.,¹ James E. McCormack, Barbara Ann Parker, Harold M.

Shorr, John V. Taggart

Clinical Instructors: Anthony A. Bianco,² Harold Brandaleone, Joseph

Brumlik, Eugene Calvelli, Eugene Clark, Sidney Cohen,¹ Max P. Cowett,

Elvira M. DeLee, Irving Ehrenfeld, Harold H. Goldberg, Herbert Green-

field, Delavan V. H. Holman,¹ K. Leora McCloskey, J. Ernest Nadler,¹

Walter Redisch,¹ Milton H. Redish,² George P. Robb,¹ John E. Sawhill,

Harry Taube, Noah Temchin, Clifford G. Weston

Instructor in Clinical Pathology: Margaret Tewksbury

Instructors in Therapeutics: Robert C. Batterman, Leo F. Godley, Robert

A. Lehman, Floyd C. Raymond

Assistants: Elmer Alpert,² Levon F. Ayvazian, Frederick R. Brown,¹ Harry

D. Fein,¹ Gerald Flaum, Morton Galdston,¹ Einar G. Gustafson,¹ Irving

Hansmann,¹ Bernard I. Kaplan, Ethelmay Kennedy, Hirsch R. Liebo-

witz,¹ William J. Messinger,¹ Robert A. Newburger,¹ Edward L. Powers,

Jr., O. Alan Rose,¹ Louis A. Rosenblum, James J. Smith,¹ George H.

Stueck, Jr.¹

Clinical Assistants: Michael M. Dacso, Samuel S. Feuerstein,³ Philip Gold-

stein,¹ Benjamin J. Gruskin, Philip M. Joffe,¹ Samuel B. Levy,¹ Bruno A.

Marangoni, H. Brook Webb,¹ Jean E. Wolfson, Louis D. Zeidberg¹

Assistants in Therapeutics: David W. Fassett, Lela L. Greenwood, Charles

C. Herbert,¹ Sidney Licht,¹ Ruth A. Walker

¹ Leave of absence, military service.

² Leave of absence, government service.

³ Leave of absence, due to illness.

Fellows: James H. Bannon, Frederick S. Bigelow, Alfred A. Bolomey, Doris Jane Escher, Peter Knowlton, W. Eugene Knox III, Alfred R. Lamb, Stephen Howard Leslie, William J. Welch, Charles G. Zubrod
 Fellow in Physical Medicine: Harold Dinken
 Fellows in Therapeutics: Marie Irené Ferrer, David Unterman

The course in medicine extends over three years, the second, third, and fourth. In the second year, the subject of physical diagnosis is given in association with an introductory course in clinical medicine. In the third year, the greatest amount of time is spent in learning classical disease pictures. During this year the student also receives assignments, under the guidance of instructors, in the Outpatient Department. In the fourth year, he is given as wide an opportunity as possible, under proper supervision, to examine patients and study in detail the manifestations of diseases and their treatment on the wards of Bellevue Hospital.

SECOND YEAR

Introduction to Clinical Medicine Including Physical Diagnosis—The course extends over three trimesters. During the first trimester the methods of physical diagnosis are taught in normal persons. The class, divided into small groups, spends one hour a week in gaining practical experience.

During the second and third trimesters two hours a week are spent on the wards of Bellevue Hospital. Small groups are assigned to each of several instructors. The course includes history taking and the physical diagnosis of abnormal states. Staff of the department of medicine.

Lectures—In connection with the course described above the following lectures are given: At the beginning of the first trimester, two lectures are given for the purpose of discussing the technique of physical diagnosis. During the second trimester, lectures are given one hour a week. The lectures deal with the explanation and significance of physical signs on the basis of anatomical, physiological, chemical, and pathological changes. During the third trimester, two lectures per week are given which are a continuation of the course presented in the second trimester. Staff of the department of medicine.

One additional lecture a week is given during the first trimester on the relationship of disturbances of nutrition and vitamin deficiencies to disease. Associate Professor Ralli.

Clinical Pathology—Four hours a week during the third trimester are devoted to laboratory instruction in the microscopical and chemical examination of blood, urine, sputum, vomitus, stomach contents, inflammatory

exudates, etc. Two hours a week during the third trimester are devoted to lectures and class exercises. Professor Connery and staff.

THIRD YEAR

Class Conferences—This is a comprehensive course of conferences supplemented by lectures. Types of disease are systematically studied. The class is divided into four sections, each of which reports to the classrooms and wards of Bellevue Hospital one day a week throughout the year. Cases are presented and demonstrated. The complete study includes detailed consideration of qualitative and quantitative laboratory tests, radiologic and electrocardiographic examinations, and other technical methods of procedure. Professors Connery, DeGraff, and de la Chapelle, Associate Professors Goldring and Ralli, and Associate Clinical Professor Jolliffe.

Clinical Instruction—Each member of the class is assigned to the Third Medical Outpatient Department of Bellevue Hospital one afternoon a week and to the New York University Clinic one afternoon a week for a period of seven weeks. Assistant Professors McLave, Bunim, and Chasis, and other members of the instructional staff.

Lectures and Conferences in Therapeutics—One a week throughout the session. General principles of therapeutics. Professor DeGraff and special lecturers.

Prescription Writing and Compounding. Mr. Godley.

Clinical Conferences in Therapeutics—The class is divided into small sections, each of which attends four clinical conferences on the medical wards of Bellevue Hospital where various therapeutic procedures are demonstrated. Professor DeGraff and Miss Greenwood.

FOURTH YEAR

Clinical Clerkship—Every student is a clinical clerk for a period of six weeks. In this activity he becomes an integral part in a minor role of the clinical department engaged in the diagnosis and treatment of patients on the wards of the Third Medical Division of Bellevue Hospital. Students are assigned to duty all of every day, except from 11.30 a.m. to 1.00 p.m. when they are excused for exercises arranged throughout the year for the class as a whole. As a rule they are on duty three evenings a week and every third Sunday. As patients are admitted to the hospital they are assigned by the resident physician to the students who are individually required to take histories, make physical examinations, and do the laboratory work on the patients assigned to them. This work is checked and supervised by the

instructors. Bedside teaching is conducted three times a week by the attending physicians in charge of the wards.

In addition to the clinical clerkship, the group of students assigned to ward duty during this period attend once a week the New York University Clinic which is devoted to the care of ambulatory patients.

The final examination of the fourth year is a comprehensive examination covering all aspects of medicine.

ELECTIVE COURSES IN MEDICINE

In addition to the electives listed below, opportunity is offered a limited number of students with special aptitude to work in certain of the laboratories and clinics during their free time after the completion of their first year.

Fourth-Year Electives

As a general rule the courses are given for two elective periods. By special arrangements with members of the staff who conduct the electives, some exceptions in the amount of time spent may be made.

The number of students acceptable refers to the number for each two elective periods. Students who desire to continue their activities during extra hours beyond the prescribed time may do so after special arrangements are made.

1. *Medicine, Third Medical Division of Bellevue Hospital*—Limited to eight students. Candidates are eligible only after having completed, in a highly satisfactory manner, their clinical clerkship in medicine. The course consists of planned studies relating to interesting problems arising from selected patients or from groups of single types of diseases on the Third Medical Division wards of Bellevue Hospital. Accepted candidates also have the opportunity of assisting members of the instructional and intern staff in carrying out special duties associated with diagnostic, therapeutic, and investigational procedures. Professor Tillett and staff. Credit, 200 hours.

2. *Research in Therapeutics*—On the wards of the Third Medical Division of Bellevue Hospital and in the laboratory of the department of therapeutics, 414 East 26th Street. The type of work is usually on some phase of drug therapy. Frequent seminars are held. Professor DeGraff. Credit, 200 hours.

3. *Special Studies in Medicine*—The courses are given for two elective periods and continue daily, except by special arrangements with the members of the staff listed below. The following divisions of medicine offer separate courses:

Hematology, Professor Connery
Cardiology, Professor de la Chapelle

Hypertension and Nephritis, Associate Professor Goldring
Metabolism, Associate Professor Ralli
Electrocardiography, Assistant Professor Berger

Students engage in special clinical or laboratory studies of assigned problems. The activities are carried on in association with patients on the wards, in the Outpatient Department, or in the New York University Clinic. Seminars for discussion and review of the literature are frequently held. Credit, 200 hours each course.

ELECTIVES IN SPECIAL MEDICAL CLINICS

The department of medicine also offers elective work in the various clinics listed below. Certain students may be assigned from their medical clerkship and while on electives for special work in one of these clinics, except for the cardiac clinics where attendance is continuous throughout the year. Only one day clinic may be elected; students may elect two clinics if one is an evening clinic.

Arthritis Clinic—Tuesdays, 10.00–11.30 a.m., at the New York University Clinic; or Saturdays, 9.30–11.30 a.m., at the Bellevue Hospital Outpatient Department. Associate Professor McEwen.

Cardiovascular Clinic, Bellevue Hospital—Thursdays, 6.00–8.00 p.m., Outpatient Department. Limited to fifty students. Assistant Professor Berger.

Cardiac Clinic, Lenox Hill Hospital—Mondays, 7.00–10.00 p.m., Outpatient Department. Limited to twenty students. Professor de la Chapelle.

Cardiovascular Disease Clinic—Tuesdays, 5.00–7.00 p.m., at the New York University Clinic. Professor DeGraff and Assistant Professor Kutisker.

Diabetic Clinic—Thursdays, 3.00–5.00 p.m., at the Bellevue Hospital Outpatient Department. Associate Professor Ralli.

Gastrointestinal Clinic—Tuesdays, 1.00–3.00 p.m., at the Bellevue Hospital Outpatient Department; or Thursdays, 10.00–11.30 a.m., at the New York University Clinic. Assistant Clinical Professor Wallace.

Hypertension Clinic—Tuesdays, 10.00–11.30 a.m., at the New York University Clinic. Associate Professor Goldring.

NEUROLOGY

Professor and Chairman: Emanuel D. Friedman
Professor: Samuel Brock
Associate Professor: S. Bernard Wortis

Assistant Professor: Morris B. Bender¹

Clinical Professors: Otto Löwenstein, Harold R. Merwarth¹

Associate Clinical Professor: Bernhard Dattner

Assistant Clinical Professors: Aaron Bell, Frank J. Curran, Morris Herman,
David J. Impastato, Mary E. O'Sullivan

Instructors: Renato J. Almansi, Ernest V. Altman, Benjamin H. Balsler,¹
Israel S. Freiman,² Bernard C. Meyer, Joseph W. Owen,² Fredy A. Quad-
fasel,¹ Lewis I. Sharp,¹ Donald Shaskan,¹ Hans Strauss, John H. Taterka,
Joseph A. Winn

Assistants: Samuel S. Kaufman, Joachim Luwisch, Werner Nathan, John L.
Simon, John B. Train²

SECOND YEAR

Introduction to Clinical Neurology: Lectures and clinical demonstrations.

THIRD YEAR

Clinical Neurology: Clinical lectures.

Clinical bedside instruction. (Lectures are illustrated by cases of the
diseases under discussion.)

FOURTH YEAR

Clinical Neurology: Clinical clerkship and bedside instruction.

ELECTIVE COURSES IN NEUROLOGY

1. *Experimental Neurology*—In the laboratory of experimental neurology. One elective period.
2. *Courses in Clinical Neurology, with Special Reference to Localization in the Brain and Spinal Cord*—One elective period in the wards of Bellevue Hospital.
3. *Courses in Clinical Neurology in Conjunction with Courses in Clinical Psychiatry*—One elective period in the wards of Bellevue Hospital.

¹ Leave of absence, military service.

² Leave of absence, government service.

OBSTETRICS AND GYNECOLOGY

Professor and Chairman: Howard C. Taylor, Jr.

Associate Professor: Claude E. Heaton

Clinical Professors: David N. Barrows, Henry C. Falk, Frederick C. Freed,
Onslow A. Gordon, Arthur M. Reich

Assistant Clinical Professors: George L. Bowen, Henry T. Burns, Clair E.
Folsome, Myron E. Goldblatt, Sophia J. Kleegman, Herman Lardaro,
Mortimer D. Speiser, Irwin Wellen

Instructors: Endre K. Brunner,¹ Louis A. Bunim, Joseph DePietro,¹ William
Filler, W. Spencer Gurnee, Robert W. Hedges,¹ John S. Labate, Louis
Langman,¹ Hiram P. Salter, Jr.,² Eugene N. Scadron,¹ Edward F. Stan-
ton,² Melvin L. Stone²

Assistants: Louis C. Blaha,¹ Alfred F. Calvelli, Irving Chrisman, Louise M.
Dantuono, Herbert B. Guyer, Frederick F. Kortlucke, Jr., Equinn W.
Munnell, Louis Newton, Bernard J. Pisani,¹ Georgia Reid, William R.
Richards,¹ Leonard Roth, Arthur F. Wright¹

Fellow: Roberto M. Pinto

Austin Flint III Fellow: Heinz Luschinsky

Sovak Fellow: Equinn W. Munnell

THIRD YEAR

Obstetrics

The teaching of obstetrics during the third year is devoted mainly to the theoretical study of normal obstetrics and of the complications of pregnancy, labor, and puerperium, by means of lectures and recitations. Small groups are assigned to the ante-partum clinic and to the obstetrical wards in the last trimester for an introduction to clinical work.

Gynecology

The teaching of gynecology during the third year is devoted to the theoretical study of the subject and an introduction to clinical work. This is accomplished by lectures and discussion groups which are confined to the first half of the year and by instruction in the gynecological clinic at Bellevue Hospital in the last trimester.

¹ Leave of absence, military service.

FOURTH YEAR

Obstetrics

During the fourth year, groups of approximately twenty-four students report to the Obstetrical and Gynecological Service of Bellevue Hospital every six weeks. One half of each group is assigned to obstetrics for three weeks to serve as clinical clerks. Ten days are spent on day duty and ten days on night duty, the night and day work being equally divided by shifts made at the end of the ten-day period. While on this work, each student delivers personally six multiparous patients and assists in many other cases. Each individual should see about sixty deliveries during his time on service. In addition, many histories and physical examinations are done by the students as well as a large amount of laboratory work. Fifteen sessions on assigned subjects are held in the mornings by the various members of the staff. A practical examination is given at the end of the course.

Gynecology

During the fourth year, groups of approximately twenty-two students report to the Obstetrical and Gynecological Service of Bellevue Hospital every six weeks. They are divided into two groups. One half of each group is assigned to gynecology for three weeks. These small groups are assigned in rotation to twenty-four-hour duty on the ward, each group spending four to five such periods while on the service. During the days on duty, they completely work up all new admissions, including history, physical examinations, and laboratory work under the supervision of an attending gynecologist and the resident. All students see five to seven cases per day. Sleeping quarters are available so that they can be called at night.

Fifteen sessions of one and one-half hours are given by the various attending gynecologists covering assigned subjects on gynecology.

In the afternoon these students are assigned to the ante-partum clinic, with the exception of the two men on duty on the wards.

FOURTH-YEAR ELECTIVE COURSES

1. *Gynecological Clinic, Bellevue Hospital*—Daily, 9.00–11.15 a.m. for one elective period, Outpatient Department. Limited to four students. Opportunity is presented for the study and treatment of the numerous and varied minor gynecological conditions which are not emphasized on the obstetrical and gynecological wards. Professor Taylor and staff. Credit, 50 hours.

2. *Obstetrics, Queens General Hospital*—Daily, 9.00 a.m.–5.00 p.m. for

one elective period. Limited to one student. This course consists of clinical work in the obstetrical wards, delivery room, and the prenatal and post-partum clinics of the Outpatient Department. The student attends the weekly conferences, makes rounds, and is given practical instruction on the manikin. Credit, 100 hours.

OPHTHALMOLOGY

Professor and Chairman: Daniel B. Kirby

Assistant Professor: Edward B. Gresser

Clinical Professors: Donald W. Bogart, W. Guernsey Frey, Jr., Frank C. Keil, Richard T. Paton, Ervin A. Tusak, David H. Webster

Assistant Clinical Professors: Bernard Fread, Isadore Givner, Loren P. Guy, James M. Houlahan, Ferdinand L. Koch, Raymond E. Meek,¹ Brittain F. Payne,¹ Arno E. Town¹

Instructors: Fritz J. Bloch, Girolamo Bonaccolto, C. Hugh Branigan, Domenico Cappetta, J. Gordon Cole, Elizabeth F. Constantine, Sidney A. Fox,¹ James T. Jarrott, Alfred Kestenbaum, Arthur Linksz, Jesse W. Overton,¹ William H. Ryder, Alfred Weintraub, Joshua Zuckerman

Assistants: Benjamin B. Gurland, William H. Hanna,¹ Benjamin Jaffe,¹ John C. Luksteid, Paul T. McAlpine,¹ David B. Maher,¹ Byron C. Smith¹

THIRD YEAR

Introductory Lectures—Dealing with objective and subjective examination of the eye. The scope of these lectures covers only those eye conditions which are most likely to be met with in general medical practice. The lectures are illustrated by lantern slides and motion pictures.

Demonstrations—Methods of making eye examinations. Instruction in the use of the ophthalmoscope. Examination of eyes on medical wards.

Clinical Teaching—Small sections of the class receive practical instruction in the recognition, diagnosis, and treatment of all the usual diseases of the eye as well as in the correction of errors of refraction. Special stress is laid upon the use of the ophthalmoscope. The student becomes familiar with the normal appearances of and many pathological changes in the fundus oculi. Oral quizzes review the work gone over in the sectional instruction course.

Didactic Lectures—Covering in detail the subject of ophthalmology in its relation to general medicine and surgery.

¹ Leave of absence, military service.

FOURTH-YEAR ELECTIVE

Ophthalmology—Daily, 2.00–4.00 p.m. for one elective period at Bellevue Hospital Outpatient Department and the New York University Clinic. Limited to four students. This course consists of (a) instruction in examination, etiology, pathology, diagnosis, and treatment; and (b) ophthalmoscopy—thorough instruction in the practical use of the ophthalmoscope. The examination of normal and pathological conditions of fundus, utilizing a large number of cases, is made. Professor Kirby and staff. Credit, 50 hours.

ORTHOPEDIC SURGERY

Professor and Chairman: Arthur Krida

Associate Professor of Clinical Orthopedic Surgery: John C. McCauley, Jr.

Associate Clinical Professor: William A. Walker

Assistant Clinical Professors: Ernst W. Bergmann, Joseph Buchman

Instructors: Alvin M. Arkin, Arthur I. Blieden, Samuel H. Nickerson,¹

Albert J. Schein, Mario E. Stella,¹ Frederick H. vom Saal

Lecturers: David M. Bosworth, Samuel Kleinberg, Leo Mayer

Assistants: Mortimer D. Abrashkin,¹ Antonio J. Pisani¹

THIRD YEAR

As an introduction to the work of the fourth year in orthopedic surgery, two lectures are given during the latter portion of the academic year. The general content of orthopedic surgery is discussed together with the methods of examination and recording of orthopedic cases. Associate Professor McCauley.

FOURTH YEAR

Lectures—One didactic or clinical lecture weekly for 13 weeks. The effects of infection, traumatism, habitual overstrain, and functional insufficiency upon joint structures are elaborated, emphasis being placed upon pathology and upon the physical examination of normal and pathological joints. Congenital and acquired deformities of the locomotor system are discussed and illustrated. The principles of treatment are outlined. Lantern slides, motion pictures, and clinical cases are shown to illustrate the material of the lectures. Professor Krida and staff.

Section Teaching—Three afternoon sessions a week for three weeks. Prac-

¹ Leave of absence, military service.

tical instruction in diagnosis and treatment is given to small sections of the class in the New York University Clinic and in the Outpatient Department at Bellevue Hospital. Professor Krida and staff.

OTORHINOLARYNGOLOGY

Professor and Chairman: Joseph D. Kelly

Assistant Professor: John F. Daly

Clinical Professors: Daniel S. Cuning, John M. Loré, Girard F. Oberrender

Assistant Clinical Professors: William B. Allan, Charles W. Depping, William M. Dick, Carl H. Fornell, Frank J. Hynes, Saul Knopf, Eugene H. Moyle,¹ Anthony Nigro, Gerald S. Ryan, James B. Shannon

Instructors: Miles Atkinson, Ashby G. Martin, Frank J. Raffaele, Jackson A. Seward

Assistants: Louise Fischer, Alfred Kornblut¹

THIRD YEAR

Lectures—The various pathological conditions of the ear, nose, and throat are described and demonstrated to the class by the use of specimens and lantern slides. Particular effort is made to present the subject from the standpoint of the general practitioner and to render each student competent to treat intelligently those diseases of the ear, nose, and throat which demand immediate attention.

Section Teaching—Small sections of the class receive instruction in the anatomy of the ear, nose, and throat, and in the examination of patients; and the normal structures are demonstrated to them. After the students become proficient in the use of the common instruments of examination, they are assigned to patients in the Manhattan Eye, Ear, and Throat Hospital Clinic where they are instructed in the diagnosis and treatment of the common diseases of the ear, nose, and throat.

In addition, each section is given a demonstration of the technique of endoscopic examination of the larynx, trachea, bronchi, and esophagus, and also the common methods used in the functional examination of the ear. This work is supplemented by bedside instruction in the hospital wards, conferences, and by oral quizzes.

¹ Leave of absence, military service.

FOURTH-YEAR ELECTIVE

Limited to three students, for a period of three or six weeks, at Lenox Hill Hospital.

PATHOLOGY

Professor and Chairman: William C. Von Glahn

Associate Professor: Irving Graef

Associate Professor of Neuropathology: Lewis D. Stevenson

Assistant Professors: John W. Hall, Sigmund L. Wilens

Professor of Clinical Medicine assigned to Pathology: Clarence E. de la Chapelle

Lecturer: Alfred Plaut

Instructors: Henry Brody,¹ Antonio Rottino, David M. Spain

Assistants: Carter M. Alexander, Margaret Bevans, Rejane M. Harvey, Henry Spitz

Dean W. Horace Hoskins Fellow in Comparative Pathology: Henry Spitz

SECOND YEAR

Lectures, experimental demonstrations of fundamental pathological phenomena, and practice in pathological anatomy and histology are given. A comprehensive outline of neuropathology is included.

During the course, groups of ten students study abundant fresh material in the necropsy rooms of Bellevue Hospital. Subsequently the histological findings in each case are presented and the case reviewed.

THIRD YEAR

Weekly pathological conferences are held under the supervision of the department of pathology with the cooperation of members of clinical departments to present case material from the files of the department illustrating pathological phenomena. Emphasis is placed upon those pathological features which can be correlated with outstanding clinical events.

FOURTH YEAR

Special conferences devoted to the correlation of clinical and pathological findings are held during the fourth-year clinical clerkships in medicine, sur-

¹ Leave of absence, military service.

gery, obstetrics and gynecology, and pediatrics. More detailed information is given in the descriptions of the various departments.

ELECTIVE COURSES IN PATHOLOGY

In addition to the electives listed below, opportunity is offered a limited number of students with special aptitude to work in the laboratories during their free time after the completion of their second year.

Fourth-Year Electives

Students may be assigned to elective courses in pathology only after consultation with Professor Von Glahn.

1. *Neuropathology*—Daily, 9.00–11.15 a.m. and 2.00–5.00 p.m., in the neuropathology laboratory of Bellevue Hospital. Limited to one student who is willing to spend his spare time throughout the year as well as during the six-week elective period. He is given an opportunity to learn the special methods of the laboratory and to study the abundant neuropathological material. Associate Professor Stevenson. Credit, 200 hours.

2. *Pathology, Bellevue Hospital*—Daily. The course consists of the study of materials from autopsies and operating room and extends over a period of six weeks. No more than three students will be allowed to take the course at any one time. 200 hours.

PEDIATRICS

Professor and Chairman: L. Emmett Holt, Jr.

Associate Professors: Harry Bakwin, Robert Ward

Assistant Professors: Anthony A. Albanese (biochemistry), Katharine G. Dodge,² Edith M. Lincoln, Rosa Lee Nemir

Clinical Professors: Hugh Chaplin, Gaylord W. Graves, Alexander T. Martin, Giuseppe Previtali, Bret Ratner, Edward S. Rimer

Assistant Clinical Professors: Ruth M. Bakwin, Janet S. Baldwin, Samuel D. Bell, Lillian A. Gilbert, Joseph Goldstein, Harold Jacobziner,² Jerome L. Kohn, Jacques M. Lewis, Frank McLean, Lillian Milgram, Blandina Worcester

Instructors: John A. Birmingham, Arthur W. Chung, Irving Claman, M. Natalie Dillont, Herbert L. Elias,² Alfred E. Fischer, Lewis Jacobs,² Richard Schorr,² Reuben Turner, Stanley M. Wershof

Assistants: M. Elizabeth Burleigh, Eliza H. Caldwell, Harold J. Eisenberg,

¹ Leave of absence, government service.

² Leave of absence, military service.

Regina Glück, Patricia J. Harrison, Ernest T. Heffer,¹ Olga R. Hoffman, Virginia Irby, Leo Jenkins, Dabney Moon-Adams, Nancy Nichols, Samuel Prince,¹ Eli Rubenstein, Bernard A. Schmierer, Mortimer W. Weber¹
 Fellows: Jane E. Frankston, Katherine C. Ketron, Myra R. Palmer, Selma E. Snyderman

THIRD YEAR

Lectures or Clinics—One a week throughout the year. Fundamentals of pediatrics, development, growth, nutrition, and the diseases of infancy and childhood. Professor Holt and staff.

Clinic Conferences—One morning a week (one and one-quarter hours) throughout the year, in sections. These are illustrated by cases from the wards and Outpatient Department of Bellevue Hospital.

Physical Diagnosis of Children—In small sections of the class, one hour a week throughout the year in the hospital wards following clinic conferences.

FOURTH YEAR

Each student spends six weeks on the Children's Medical Service at Bellevue Hospital, during which he serves as clinical clerk on the wards and as a physician under the guidance of an instructor in the Outpatient Department. Conferences are held several times a week.

Clinics—Once a week throughout the year. Professor Holt and staff.

Contagious Diseases at Willard Parker Hospital—Each student has six exercises in which he is shown examples of the various contagious diseases

FOURTH-YEAR ELECTIVES

1. *General Pediatrics, Roosevelt Hospital*—Tuesdays, 2.30–4.00 p.m., for three weeks. Limited to six students. Clinical Professor Martin. Credit, 15 hours.

2. *General Pediatrics Beth Israel Hospital*—Mondays, Wednesdays, Fridays, 3.00–4.00 p.m., for three weeks. Limited to four students, by special arrangement with Assistant Clinical Professor Lewis. Credit, 45 hours.

3. *Rheumatic Fever*—Daily, 9.00–11.15 a.m. and 2.00–5.00 p.m., for three weeks on the wards of Bellevue Hospital. Limited to two students, by arrangement with Assistant Clinical Professor Baldwin. Credit, 100 hours.

4. *Pediatric Special Clinics at Bellevue Hospital*—The various clinics listed below may be taken as a group to fill some afternoons for one or two hour periods of three weeks. Credit, 2½ hours per day.

¹ Leave of absence, military service.

Children's Chest Clinic—Daily, arranged by interview with Assistant Professor Lincoln.

Adolescent Cardiac Clinic—Thursdays, 6.00–8.30 p.m., in the Outpatient Department of Bellevue Hospital. Limited number of students for a period of nine months each, by arrangement with Assistant Clinical Professor Baldwin.

Syphilis Clinic—Mondays, 1.30–4.00 p.m. Dr. Moon-Adams.

Allergy Clinic—Tuesdays, 1.30–4.00 p.m. Assistant Clinical Professor Bell.

Behavior Clinic—Tuesdays, 1.30–4.00 p.m. Assistant Clinical Professor Ruth M. Bakwin.

PHARMACOLOGY

Professor and Chairman: George B. Wallace

Research Professor: Otto Loewi

Associate Professor: Richard C. de Bodo

Assistant Professor: Bernard B. Brodie

SECOND YEAR

First Trimester

Lectures and Recitations—Four lectures and two recitations a week. In this course the principles underlying pharmacological actions are discussed and a systematic account given of drugs of therapeutic usefulness or special pharmacological interest. Chief emphasis is laid on the actions of drugs on the body, but due consideration is given to their chemical and physical properties, the form and dosage in which they are prescribed, the indications of their therapeutic use, and their effects as poisons.

Laboratory Work—One three-hour and one five-hour session a week. The actions of drugs are shown by animal and human experimentation, the students working in small groups and performing the experiments themselves. The purpose of the course is to show how functions of the body may be modified by drugs. The nervous system, circulation, kidney, gastrointestinal tract, etc., are studied from this standpoint, the drugs used to produce changes in function being those of therapeutic importance. Conclusions concerning their usefulness in therapeutics are drawn from the experiments. The symptoms and treatment of drug poisoning are also studied.

The principles of prescription writing are taught and firsthand knowledge obtained of pharmacopoeial and other preparations used in rational therapeutics, and of methods of their administration.

Conferences—One a week. For each experiment a group of students is

assigned to assemble the facts obtained, and to present these with interpretations and conclusions to the class. A general discussion follows each report.

Third Trimester

Lectures—One a week. In this course, various conditions are described for which drugs may be advantageous. The reasons for the selections of the drugs of choice are given; the manner of their administration and the effects that follow are described. A general review of toxicology is also given.

PHYSIOLOGY

Professor and Chairman: Homer W. Smith

Visiting Professor: Chester W. Hampel

Lecturer: Samuel Standard

Instructors: William P. Anslow, Jr., Francis N. Craig, C. Riley Houck, Henry D. Lauson

Fellows: James H. Bannon, Alfred A. Bolomey, Doris Jane Escher, Domingo M. Gomez, Alexander J. Michie

Rockefeller Fellow: Renato A. Gazmuri

FIRST YEAR

Second and Third Trimesters

Lectures—Three a week. Professor Smith and staff.

Recitations—One a week. Professor Hampel and Drs. Anslow, Craig, Houck, and Lauson.

Laboratory Work—One full day a week.

The following subjects are examined experimentally:

Muscle and Nerve—Methods of stimulating and observing the responses; threshold and changes in irritability; contraction of skeletal muscle showing time relations of the activity, summation, fatigue, and working power in isotonic and isometric contractions; speed and efficiency in man; the oxygen debt.

Circulation—Properties of heart muscle; events of the cardiac cycle; regulation of blood pressure; the measurement of blood pressure in man; the effect of exercise and other factors on the circulation.

Respiration—Determination of oxygen and carbon dioxide in expired air; effects of oxygen and carbon dioxide on respiration; the chemical and nervous control of respiration; mechanics of respiration; the transport of gases by the blood.

Secretion, Digestion, Absorption, and Excretion—Regulation of secretion by nervous and chemical mechanisms; physics and physiology of absorption; kidney function; gastric function.

Metabolism—Determination of the respiratory quotient; measurement of basal metabolism; effect of diet and exercise on metabolism; carbohydrate metabolism and regulation of blood-sugar level.

Nervous System—Action potentials of the nerve; spinal reflexes; spinal animal; decerebrate animal; thalamic animal; ablation of afferent and efferent pathways; autonomic nervous system; special senses.

ELECTIVE WORK IN PHYSIOLOGY

Opportunity is offered a limited number of students with special aptitude to work in the laboratories during their free time after the completion of their first year.

Fourth-Year Elective

Physiology—Full time for six weeks by arrangement with Professor Smith. Limited to four students in each elective period. The work will consist of collaboration and informal conferences with members of the staff engaged in the study of the systemic and renal circulation and related problems. Professor Smith. Credit, 200 hours.

PREVENTIVE MEDICINE

Hermann M. Biggs Professor and Chairman: Henry E. Meleney

Visiting Professor of Medical Statistics: John W. Fertig

Assistant Professors: David H. Goldstein,¹ Leonard J. Goldwater, Harold H. Mitchell, Harry Most¹

Lecturers: Frank A. Calderone, Elizabeth Hand, Florence A. Ritner, Theodore Rosenthal

Instructors: Dominic L. DeGiusti, Elvira M. DeLieu, Henrik M. C. Luykx,¹ Franco Mortara, David Reisner, Alice M. Waterhouse, Jean E. Wolfson

FIRST YEAR

Introduction to Medical Statistics—Three hours a week during the first trimester (33 hours). Lectures and laboratory exercises. The course is designed to acquaint the student with quantitative methods used in medicine, and the importance of a critical attitude in the interpretation of statistical

¹ Leave of absence, military service.

data. The instruction covers the sources and methods of collection of statistical material, practices and procedures involved in its analysis, and principles to be observed in its interpretation. Specifically, this includes methods of presentation by tables, graphs, calculation of rates and ratios, methods of sampling, analysis of frequency distributions, and determination of the variation of results due to chance. Visiting Professor Fertig and Dr. Waterhouse.

SECOND YEAR

Parasitic Diseases—Three hours a week in the second and four hours a week in the third trimester (77 hours). Lectures and laboratory exercises on the protozoan and helminthic diseases of man, and the arthropod vectors and agents of human diseases. The morphology of parasites and vectors is dealt with from the point of view of identification. In order to present a complete picture of each disease, emphasis is placed upon life cycles, epidemiology, pathology, clinical symptoms, treatment, and prevention. Drs. DeGiusti and Meleney.

THIRD YEAR

Epidemiology—One hour a week throughout the year (33 hours). Conferences covering the epidemiology and prevention of important diseases, both communicable and noncommunicable. Industrial diseases receive considerable attention. Professor Meleney and staff.

FOURTH YEAR

Clerkship in Preventive Medicine and Public Health—Sections of from ten to twelve students spend four weeks (120 hours)—three weeks (90 hours) during the accelerated curriculum—in the Health and Teaching Center of the Lower East Side District of the New York City Health Department, in which the department of preventive medicine is located. Instruction consists of seminars, field visits, environmental case studies, and special readings. The subjects covered include Federal, State, and local health administration, public-health nursing, dental hygiene, tuberculosis and venereal-disease diagnosis and control, immunization, medical social service, social security, water purification, sewage disposal, pasteurization, Federal meat inspection, food handling, industrial hazards, and planned parenthood. Several sessions are devoted to the clinical, diagnostic, and epidemiological aspects of early syphilis and other venereal diseases. Emphasis is placed upon the practice of preventive medicine by a physician, and his cooperation with public-health agencies. Professor Meleney, Assist-

ant Professor Mitchell, Drs. DeLee, Mortara, Wolfson, Rosenthal, Reisner, Misses Hand and Ritner.

ELECTIVE COURSES IN PREVENTIVE MEDICINE

Electives for fourth-year students, giving credit for 100 or 200 hours, may be arranged for individuals or small groups. They consist of practical work or participation in research on medical statistics, child hygiene, epidemiology of acute communicable diseases, syphilis, tuberculosis, malaria control, industrial hygiene, or other subjects. Some of these elective courses are conducted with the cooperation of the City Health Department and the United States Public Health Service. After the second year, arrangements can also be made for advanced instruction or participation in research on parasitic diseases. A program for each elective student is made by consultation with the head of the department.

PSYCHIATRY

Lucius N. Littauer Professor and Chairman: S. Bernard Wortis

Associate Professor: Laretta Bender

Assistant Professors: Frank J. Curran, Morris Herman, Margaret A. Kennard (Neuropsychiatry)

Clinical Professors: Abraham A. Brill, Thomas K. Davis, Louis Hausman

Associate Clinical Professor: Benjamin Apfelberg

Assistant Clinical Professors: Abram Blau,¹ John Frosch, David J. Impastato, Sylvan Keiser, Charles B. Thompson, David Wechsler (Medical Psychology)

Research Associate: Albert S. Keston (Neuropsychiatry)

Lecturer in Anthropology: E. Adamson Hoebel

Instructors: Lilli M. V. Cobliner, I. Peter Glauber, Dorothy Harpham, Saul I. Heller, Joseph W. Owen,¹ Frank Percy, Lewis I. Sharp,¹ John H. Taterka, Joseph Wortis, Zuleika Yarrell

Assistants: Leida Berg, Marvin L. Blumberg, Daniel Brower (Medical Psychology), Judith B. De Forest, John A. Frank, Walter Goldfarb,¹ Matthew Levine,¹ Meyer Maskin, Edith Nachmansohn, Leo L. Orenstein,¹ Samuel Paster,¹ Arnold Z. Pfeffer, Doris Schaffer, James E. Shea, Elizabeth W. Shelden, John L. Simon, B. Frank Vogel,¹ Annemarie P. Weil, Theodore S. Weiss, Gertrude Werner

Research Fellows: Augustin DesLauriers, Peter B. Neubauer

¹ Leave of absence, military service.

FIRST YEAR

Introductory Psychiatry—Psychodynamics. Lectures and clinical demonstrations emphasizing the factors concerned in the development of normal behavior.

SECOND YEAR

Introductory Psychiatry—Psychopathology. Lectures and clinical demonstrations illustrating the dynamics of psychopathological reactions.

THIRD YEAR

Clinical Psychiatry—Lectures and clinical demonstrations of the various psychiatric syndromes. Also bedside and outpatient-department instruction in methods of neuropsychiatric examination and study.

FOURTH YEAR

Clinical Psychiatry—Lectures, clinical demonstrations, and part-time clinical clerkships on the wards and outpatient service of the Psychiatric Division of Bellevue Hospital. Instruction in clinical psychiatry, psychosomatic medicine, psychotherapy, and medicolegal aspects of psychiatry.

ELECTIVE COURSES

1. *Clinical Psychiatry*—Medical, sociological, and legal aspects. Daily 9.00 a.m.—5 p.m. for one period.
2. *Clinical Psychiatry*—Psychiatric problems in children and adolescents. Daily 9.00 a.m.—5.00 p.m. for one period.
3. *Clinical Psychiatry*—In the Mental Hygiene Clinic of Bellevue Hospital or the New York University Clinic. Work in the outpatient department. Daily 9.00 a.m.—12.00 noon or 5.00—7.00 p.m. for one period.
4. *Clinical Psychiatry*—Psychosomatic problems, the neuropsychiatric factors and complications of general medical disease. Daily 9.00 a.m.—5.00 p.m. for one period.
5. *Clinical Neuropsychiatry*—Clinical work in both neurology and psychiatry—clerkship during a full-time elective period. Daily 9.00 a.m.—5.00 p.m. for one period.
6. *Psychometric Methods*—Methods, principles, and applications of mental testing in the field of psychiatry. Daily 9.00 a.m.—12.00 noon or 9.00 a.m.—5.00 p.m. for one period.
7. *Methods of Treatment in Psychiatry*—This course includes psycho-

therapeutic and physiologic methods. Daily 9.00 a.m.—5.00 p.m. for one period.

8. *Experimental Neuropsychiatry*—Work in the neuropsychiatric laboratories of biochemistry, physiology, or electroencephalography. Daily 9.00 a.m.—5.00 p.m. for two periods.

RADIOLOGY

Professor of Clinical Radiology and Acting Chairman: Charles Gottlieb
Assistant Professors of Clinical Radiology: Maxwell H. Poppel,¹ Henry K. Taylor

Lecturers: Leopold Brahdly, Camille Dreyfus, Hans R. Sielman
Instructors: Elmer M. Claiborne,¹ J. Ramser Crawford, Lewis J. Friedman, Milton Friedman,¹ Sidney W. Gross,¹ Samuel T. Herstone, Samuel Lubash, Jesse J. Serwer, Abraham V. Shapiro,¹ Jesse D. Stark,¹ Harry Weaver

Instructor in Dental Radiology: Samuel S. Wald

Instructor in Physics in Radiology: Myron W. Schwarzschild

Assistants: Anthony A. Blasi, Francis P. Carrigan,¹ Stanley H. Cohn

The course in radiology embraces X-ray diagnosis and the application of the X rays and radium as therapeutic agents. The instruction is given in the Edward N. Gibbs Memorial X-ray Laboratory.

THIRD YEAR

The application of X-ray diagnosis to medicine and surgery is taught by practical demonstrations. Professor Gottlieb and Drs. Serwer, Brahdly, and Herstone.

ELECTIVE COURSES IN RADIOLOGY

In addition to the electives listed below, opportunity is offered a limited number of students with special aptitude to work in the laboratories during their free time after the completion of their first year.

Fourth-Year Electives

1. *General X-ray Diagnosis, Bellevue Hospital*—Mondays, Wednesdays, and Fridays, 2.00—4.00 p.m., for three and one-half weeks. Limited to six students. The traumatic inflammatory and neoplastic diseases of bone are studied by films and pathological specimens. Dr. L. Friedman. Credit, 24 hours.

¹ Leave of absence, military service.

2. *General X-ray Diagnosis, City Hospital*—Mondays, Wednesdays, and Fridays, 9.00–11.00 a.m., for three and one-half weeks. Limited to five students. The routine cases of an active hospital service are studied by fluoroscopic and roentgenographic methods. Professor Gottlieb. Credit, 24 hours.

3. *General X-ray Diagnosis, Goldwater Memorial Hospital*—Daily 2.00–4.00 p.m. for three weeks. Assistant Professor H. K. Taylor.

SURGERY

George David Stewart Professor and Chairman: Arthur M. Wright

Professor of Clinical Surgery: John H. Mulholland

Professor of Anesthesia: Emery A. Rovenstine

Associate Professors: William H. Barber, George A. Koenig,¹ Arthur S. McQuillan

Associate Professor of Experimental Surgery: Frank W. CoTui

Assistant Professors: Francis A. Echlin (Neurosurgery), Samuel Standard

Assistant Professors of Clinical Surgery: Anthony S. Bogatko, Victor Carabba, Thomas J. Galvin, Meyer J. Kutisker, John A. Lawler, Jr., Samuel Mufson,¹ Wallace B. Murphy, Benjamin G. P. Shafiroff, Irwin E. Siris, Hippolyte M. Wertheim

Clinical Professors: Carl Eggers, John C. A. Gerster, Ira I. Kaplan, Louis C. Lange, Otto C. Pickhardt, DeWitt Stetten, Charles W. Walker

Associate Clinical Professors: Philip D. Allen, Lester Breidenbach, James W. Hinton, Charles W. Lester, Kenneth M. Lewis, Roland L. Maier

Assistant Clinical Professors: Max P. Cowett, Harold B. Keyes, Merrill D. Lipsey

Assistant Clinical Professors of Anesthesia: Donald L. Burdick, Solomon G. Hershey, Sol H. Lesinger, McKinnie L. Phelps

Instructors: Edgar H. Bates,¹ Samuel L. Chase,¹ Joseph Croce, Henry Doubilet, Thomas Q. Garvey, Jr., John F. Grady, Lazarus Manoil,¹ Rieva Rosh, Sidney Rubinfeld,¹ Morris J. Tobias, Henry Wigderson (Neurosurgery)

Instructors in Anesthesia: Charles L. Burstein,¹ Emanuel M. Papper¹

Clinical Instructors: Clyde N. Baker, Reynold E. Church,¹ C. Joseph Delaney,¹ Edward V. Denneen, Eilif C. Hanssen,¹ Stuart Z. Hawkes,¹ Norman L. Higinbotham,¹ Francis D. Huber, Vansel S. Johnson,¹ Joseph R. Shaeffer,¹ Henry J. Stanford,¹ John E. Sullivan,¹ Cyrus E. Warden,¹ H. Lynn Wilson

Assistants: Raymond E. Banta,¹ Ernest S. Breed, Jr.,¹ John M. Converse,² Theodore H. Elsasser, Bertram Moore, Wilfred F. Ruggiero

¹ Leave of absence, military service.

² Leave of absence.

SECOND YEAR

Recitations—One a week on the principles of surgery during the third trimester. Staff of the department.

THIRD YEAR

Lecture demonstrations with illustrative patients whenever possible. Once a week throughout the session, on the principles and practice of surgery. Professor Wright and staff.

Anesthesia—During the second trimester a series of nine one-hour lectures is given, presenting the basic principles of anesthesia. The properties and uses of the different agents, the principles and application of regional, intravenous, rectal, and various inhalation techniques are included. Methods of resuscitation are discussed and demonstrated. Professor Rovenstine.

Recitations—One a week, throughout the session, on the subjects covered by the lectures and assigned surgical topics. Assistant Professors Kutisker and Carabba.

Section Teaching—The class is divided into four sections. Each section reports once a week either on the surgical wards or classrooms in Bellevue Hospital. These conferences consist of discussion of general surgical topics illustrated by practical demonstrations. Professor Wright and staff.

FOURTH YEAR

Clinical Clerkship: On wards and Outpatient Department. Full time for six weeks. In small sections, under supervision, the students are required to practise history taking and to familiarize themselves with the details of the diagnosis, care, and treatment of patients. Professor Wright and staff.

Clinics—One general surgical clinic a week throughout the session at Bellevue Hospital. Professor Wright.

Conferences—One clinical diagnostic conference weekly throughout the session. Professor Wright.

Surgical Anatomy—Six two-hour periods during clinical clerkships on surgery. Clinical Professors Lange and Walker.

Pathology: gross and microscopic—six one and one-half hour periods during the clinical clerkship on the surgical service.

Head Injuries—Three two-hour periods during the clinical clerkship on the surgical service.

Urology—Three three-hour periods on urological wards during the clinical clerkship on the surgical service. Professor Campbell.

ELECTIVE COURSES IN SURGERY

In addition to the electives listed below, opportunity is offered a limited number of students with special aptitude to work in certain of the laboratories and clinics during their free time after the completion of their first year.

Fourth-Year Electives

1. *Fractures*—Daily, 9.00–11.15 a.m. and 2.00–5.00 p.m., for three weeks on the wards of the Third Surgical Division, Bellevue Hospital. Limited to one student. Assistant Professor Siris. Credit, 100 hours.
2. *General Surgery, Lenox Hill Hospital*—Full time daily, except Sunday, for three weeks. Limited to four students. This course consists of clinical work in the Outpatient Department, on the wards, etc. Clinical Professors Eggers, Gerster, and Stetten. Credit, 100 hours.
3. *Experimental Surgery*—Daily, 9.00–11.15 a.m. and 2.00–5.00 p.m., for three weeks. Limited to two students. Associate Professor CoTui. Credit, 100 hours.
4. *Neoplastic Diseases, Memorial Hospital*—For three weeks, full time for four students. Credit, 100 hours.
5. *Anesthesia*—Full time daily for three weeks. Limited to one student. Professor Rovenstine and staff. Credit, 100 hours.
6. *Anesthesia, French Hospital*—Full time daily for three weeks. Limited to two students. Assistant Clinical Professor Lesinger. Credit, 100 hours.

UROLOGY

Professor and Chairman: Meredith F. Campbell

Associate Professor: Robert S. Hotchkiss¹

Associate Clinical Professors: John D. Cooney, Herbert M. III¹

Assistant Clinical Professor: Dean Makowski

Instructors: Nicholas J. De Julio,¹ Herman Horn, Gustavus A. Humphreys,¹

S. Sym Newman

Assistants: Alan F. Bierhoff, Perrin B. Snyder¹

THIRD YEAR

Lectures—Eight lectures designed to introduce the basic principles of urology. Professor Campbell.

Section Teaching—Groups of about eight students attend the New York

¹ Leave of absence, military service.

University Clinic two hours weekly for seven weeks. At these sessions urological diseases are seen at firsthand and actual clinical instruction is given in the common urological procedures. Associate Professor Hotchkiss and assistants.

FOURTH YEAR

Section Teaching—Bedside instruction on the wards of Bellevue Hospital to small sections of the class. This course includes a systematic presentation of pathology, diagnosis, and treatment of diseases of the urinary organs and of the genital organs of the male. Professor Campbell, Associate Professor Hotchkiss, Associate Clinical Professors Cooney and Ill, and Assistant Clinical Professor Makowski.

MEDICAL HISTORY AND MEDICAL ETHICS

There is no separate department of medical history, but weekly seminars are held throughout the academic year under the direction of Dr. Claude E. Heaton. The program is arranged by a committee composed of three faculty members and the officers of the William Welch Society, a student organization devoted to medical history. Attendance at these seminars is not required but students of all classes may attend. The seminars are scheduled to cover various historical topics, including certain aspects of medical economics with active student participation. In addition, various members of the faculty and guest speakers are invited to address the group on special topics.

Three lectures on medical ethics, attendance at which is required, are given annually to the members of the senior class. The lecturer for the past several years has been Dr. Nathan B. Van Etten.

GRADUATE MEDICAL EDUCATION

Graduate study at the New York University College of Medicine is offered to provide opportunity for physicians to undertake advanced training in medicine and surgery and the medical and surgical specialties.

At the completion of the preliminary part of this work certain students may be permitted to become candidates for the advanced degree of Doctor of Medical Science (Med.Sc.D.). Such students may become candidates only on recommendation of the Committee on Graduate Medical Education and must show not only professional skill but exceptional academic attainments.

Postgraduate Study. Postgraduate courses, both short and long, are given on the Third and Fourth Divisions of Bellevue Hospital which are affiliated with the medical college, as well as at several associated hospitals.

A bulletin of graduate and postgraduate courses may be obtained by writing to the Director, Postgraduate Division, 477 First Avenue, New York 16, N. Y.

DIVISION OF NURSING

In 1942 the Bellevue Schools of Nursing became identified with New York University as the Division of Nursing of the College of Medicine. This affiliation, which is a broader application of a long-standing tie between the College of Medicine and Bellevue Hospital, makes it possible to offer additional educational opportunities to qualified candidates desiring to become registered professional nurses.

Starting with the fall term in 1942 the Bellevue Schools offer both a *three-year program of study leading to a diploma in nursing and a five-year program of study leading to a Bachelor of Science degree.*

Detailed information about the nursing program may be obtained by writing to the Director, Bellevue Schools of Nursing, 466 First Avenue, New York 16, N. Y.

GIFTS AND BEQUESTS

NEW YORK UNIVERSITY IS PRIVATELY GOVERNED, nonsectarian, and coeducational. It derives its income from endowments, the gifts of its friends, and from student fees. It is not a tax-supported institution. Opportunities in great variety confront those who would like to associate themselves with the work of this urban and national institution. Above all, New York University stands in need of large additions to its unrestricted endowment.

Some of the most thoughtful of our philanthropists have entrusted for all time large sums to the care of New York University: Gould, Nichols, Straus, Munn, Guggenheim, Sage, Baker, Kennedy, to mention representative donors of larger gifts.

SUGGESTED FORM OF BEQUEST

I give, devise, and bequeath to New York University, an educational corporation organized under the laws of the State of New York by special Charter enacted on the 18th day of April, 1831, and amended on the 23d day of February, 1893, the sum of _____ dollars, to be applied to the uses and purposes of said University under the direction of the governing authority of the same.

NEW YORK UNIVERSITY

LIBERAL-ARTS COLLEGES

University College of Arts and Pure Science
Washington Square College of Arts and Science

*GRADUATE SCHOOLS**

Graduate School of Arts and Science (including Institute of Fine Arts)
Graduate School of Business Administration
Graduate Division for Training in Public Service

PROFESSIONAL SCHOOLS AND COLLEGES

School of Commerce, Accounts, and Finance
College of Dentistry
School of Education
College of Engineering (including Guggenheim School of Aeronautics)
School of Law
College of Medicine (including the Bellevue Schools of Nursing)
School of Retailing

OTHER DIVISIONS

Division of General Education
Terminal Program of the School of Architecture and Allied Arts
Summer Sessions

* The professional schools of Education, Engineering, Law, and Retailing offer graduate instruction leading to advanced degrees.